MINISTRY OF
HUMAN RESOURCES

MASCO

Malaysia Standard Classification of Occupations

2020

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The task and responsibilities described in these classifications in the major group, sub-major group, minor group or unit group are not at all times and need not at all times be executed in full by all occupations listed under the respective groups.

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CONTENT

MESSAGE FROM THE MINISTER OF HUMAN RESOURCES iv
FOREWARD FROM THE SECRETARY GENERAL v
ACKNOWLEDGMENT vi
INTRODUCTION vii
STRUCTURE OF CLASSIFICATIONS vii
MASCO USERS viii
POLICIES AND PRINCIPLES OF CLASSIFICATIONS ix
CHANGES IN MASCO 2020 xi
STATISTIC xi
NOTES ON CERTAIN OCCUPATIONS xii
CHALLENGES IN DEVELOPING MASCO 2020 xiii
SUMMARY OF MAJOR GROUPS xiv

MAJOR GROUP 1 MANAGERS 1
MAJOR GROUP 2 PROFFESIONALS 27
MAJOR GROUP 3 TECHNICIANS AND ASSOCIATE PROFFESIONALS 101
MAJOR GROUP 4 CLERICAL SUPPORT WORKERS 153
MAJOR GROUP 5 SERVICE AND SALES WORKERS 171
MAJOR GROUP 6 SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS 195
MAJOR GROUP 7 CRAFT AND RELATED TRADES WORKERS 209
MAJOR GROUP 8 PLANT AND MACHINE OPERATORS AND ASSEMBLERS 245
MAJOR GROUP 9 ELEMENTARY OCCUPATIONS 269
MAJOR GROUP 0 ARMED FORCES 289

APPENDICES
- INDEX - OCCUPATIONS ACCORDING TO SYSTEMATICAL ORDER 301
- INDEX - OCCUPATIONS ACCORDING TO ALPHABETICAL ORDER 433
- MASCO CHART 547
- REFERENCES 583

MESSAGE
FROM THE MINISTER

Today's world and time are fast moving. In this fast pace, the various changes in the employment landscape brings with it both opportunities and challenges to Malaysia's industrial sectors that has shown a transition from labour-intensive jobs to jobs that require technological skills. The Industrial Revolution 4.0 (IR 4.0), future jobs and green jobs are among the agents of transformations in the employment system. These transformations encompass the discovery of various new technologies such as automation, Internet of Things (IoT), analytics and big data, simulations, and robotic applications that drive the development of the modern world economy. The impact of this transformation, sparks changes in the way we work, choices of fields of specialisation, as well as methods to handle various industry related tasks and skills.

In the midst of these changes, the Ministry of Human Resources (MOHR) is responsible for analysing the current needs and future trends of the industry. The publication of the Malaysia Standard Classification of Occupations (MASCO) 2020 is timely and serves the purpose of being an information dissemination platform that is dynamic, comprehensive, and of quality to reflect the nation's changing and evolving workforce structure. It also serves as a reference to the public and private sectors in planning organisational development strategies to ensure the workforce meets job market demands.

Globalisation and communication advancements have created changes in the information delivery system. The impact of technology has made MASCO adopt the e-MASCO system that provides current, interactive and efficient job information and job descriptions that can catalyse the national human resource inventory.

I wish to express my sincere gratitude and appreciation to all involved, directly or indirectly, towards the publication of the Malaysia Standard Classification of Occupations (MASCO) 2020.

DATUK SERI M. SARAVANAN
Minister of Human Resources

FOREWORD
FROM THE SECRETARY GENERAL

The Ministry of Human Resources (MoHR) is responsible to develop the Malaysia Standard Classification of Occupations (MASCO) 2020. MASCO is a national benchmark for occupational standard in the country, which has been developed in accordance with International Standard Classification of Occupations (ISCO) by the International Labour Organization (ILO).The publication of MASCO 2020 is aimed to improve the classification of occupational structure and update job titles in current market concordant with economic growth, new technology and organizational changes in Malaysia.

MASCO lists down the descriptions and tasks as well as the code for each job title. MASCO 2020 features 6,630 job titles covering 10 categories of major group namely Managers; Professionals; Technicians and Associate Professionals; Clerical Support Workers; Service and Sales Workers; Skilled Agricultural, Forestry, Livestock and Fishery Workers; Craft and Related Trades Workers; Plant and Machine Operators and Assemblers; Elementary Occupations; and Armed Forces.

The publication of MASCO 2020 carried new challenges to the Ministry as the Malaysian economy and employment structure has changed significantly when the country undergoes Industrial Revolution 4.0 (IR 4.0) and future jobs. As the nation transformed into a more developed economy, occupations in the major group of managerial, professionals and technicians move more rapidly as compared to occupations in other major groups.

It is my hope that MASCO will continuously be relevant as a national occupational standard that provides comprehensive guidance and reference to the public and private sectors, especially policy makers, researchers, education and training institutions, and human resource planners in carrying out organizational activities.

I would like to express my appreciations and congratulations to all individuals, establishments, professional associations, related ministries and government departments for their comments and contributions towards this publication. Special thanks especially to the MASCO 2020 working group for their effort in realizing the publication of Malaysia Standard Classification of Occupations (MASCO) 2020.

DATO' AMIR BIN OMAR
Secretary General
Ministry of Human Resources

ACKNOWLEDGMENT

The Malaysia Standard Classification of Occupations (MASCO) 2020 was developed by the Ministry of Human Resources (MoHR) under the advice and leadership of YBhg Dato' Amir Omar, Secretary General (MoHR), and YBhg. Datuk Muhd Khair Razman Bin Mohamed Annuar, Deputy Secretary-General (Policy and International) (MoHR), as well as the task force chaired by Puan Betty Binti Hasan, Secretary of Policy Division (MoHR), which is responsible for the overall coordination work, including the final editing.

Thank you to the Department of Statistic, Public Service Department, Malaysia Digital Economy Corporation, Malaysian Armed Forces for their support and guidance. Also thank you to Department of Labour, Institute of Labour Market Information and Analysis and Department of Skills Development who provide new and critical job title.

MASCO 2020 was successfully completed through the commitment of several individuals. They are Mr Muazam Bin Mokhtar and Ms Norhaili Binti Kamsan who heads the development work, editing, compiling, analysing and updating of occupational titles. A big thank you also goes out to Mr Mohd. Kuchairi Bin Abd Aziz, Ms Shazana Binti Ayoub Izaruddin, Mr Elvis Edmund Emus, Ms Maslina Binti Mohd Basir, Ms Zaiti Binti Harun, Ms Junaidah Binti Tumiran, Mr Mahazrul Bin Kamarudin, Mr Arman Syahlan Mohd. Anuar, Ms Wahidah Binti Nor Azelan, Mr Khairul Nizam Bin Abu, Ms Azati Syima Binti Azini, Ms Nur Hazwani Binti Jamaluddin dan Ms Nur Nadia Binti Sahalan for their dedication and commitment in revising, editing and compiling the charts for MASCO 2020.

Thanks to the many individuals who were directly involved in the early stages of drafting the MASCO. Last but not least, a heartfelt thank you and congratulations go to all the individuals, organisations, professional bodies, unions and others as well as to the relevant ministries and departments for their comments and contributions to the completion of this publication.

INTRODUCTION

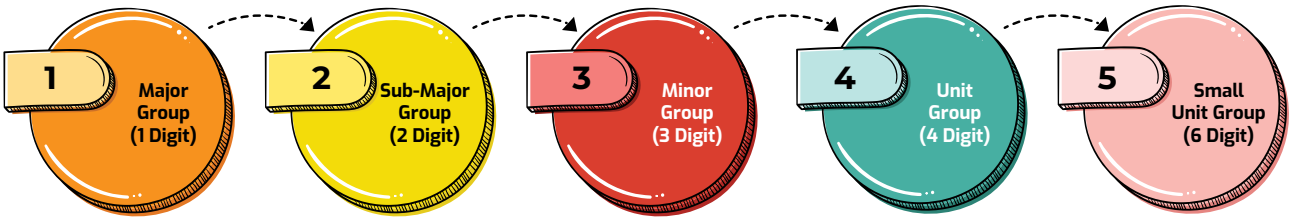
The Malaysia Standard Classification of Occupations (MASCO) is a national benchmark for the classification of occupations in the employment structure of the country. MASCO has been developed in accordance with International Standard Classification of Occupations (ISCO) with changes and modifications to meet the needs of the country.

MASCO lists down the descriptions and tasks as well as the code for each position listed. It contains ten categories of major groups, namely:

Major Group 1: Managers
Major Group 2: Professionals
Major Group 3: Technicians and Associate Professionals
Major Group 4: Clerical Support Workers
Major Group 5: Service and Sales Workers
Major Group 6: Skilled Agricultural, Forestry, Livestock and Fishery Workers
Major Group 7: Craft and Related Trades Workers
Major Group 8: Plant and Machine Operators and Assemblers
Major Group 9: Elementary Occupations
Major Group 0: Armed Forces

STRUCTURE OF CLASSIFICATIONS

The structure of MASCO 2020 features 5 levels of classification. The first level is called the Major Group, which is represented by a one-digit code. The second and subsequent levels are called the Sub-Major Group, Minor Group, Unit Group and Minor Unit Group, which are represented by 2-digit, 3-digit, 4-digit and 6-digit codes respectively.



For example, the coding details for Unit Group 2111: Physicists and Astronomers are as follows:

Group	Titles	Code
Major Group	Professional	2
Sub-Major Group	Science and Engineering Professionals	21
Minor Group	Physicists, Chemists and Related Professionals	211
Unit Group	Physicists and Astronomers	2111
Small Unit Group	Physicist	2111-01

MASCO USER

Target Group	Benefits
Policy Makers/ Human Resource Planners	· Planning, formulating and implementing policies on human resource management. · Planning the structure of the nation's workforce. · Basis for the enforcement of labour laws. · Implementation of policies to control brain drain and brain gain. · Better understanding of industrial development, talent and training needs. · Basic Wages Guideline for Skills Graduate. · Identifying job categories which require improved skill levels
Researchers/ Statisticians	· Implementing survey regarding human resources. · Researching/analysing (Population and Housing Census, the Labour Force Survey, Household Income, National Employment Return etc.). · Improve the quality of data collection in accordance with international standards.
Educational Institutions/ Training Institutions/ Providers	· Shaping the manpower requirements in the industry. · Being more objective when developing the curriculum. · Determining the basic knowledge required in a particular occupational group. · Developing educational and training syllabuses.
Employers / Investors	· Standardising job descriptions. · Identifying core and elective skills. · Providing a clear understanding of a particular job. · Determining the approximate wage for each type of work. · Determining the organisational hierarchy. · Planning for the employment needs of the labour market.
Workers	· Understanding the nature and scope of employment. · Understanding the organisational hierarchy. · Understanding the basic salary in the market and expected skills.
Students	· References on career determination. · Choosing the right courses or subjects of study. · Knowledge of skill levels and competencies required.

POLICIES AND PRINCIPLES OF CLASSIFICATIONS

The two key concepts used in the classification of occupations are the concept of job and the concept of skill.

"Job" is defined as a set of tasks and duties performed by a person.
"Occupation" is defined as a set of jobs whose main tasks and obligations are characterised by a high degree of similarity.

This means that persons performing duties of a similar nature are considered to be doing the same job and are therefore classified under the same occupational group, regardless of the level of authority, responsibility or work experience.

"Skill" is defined as the ability to carry out the tasks and duties of a given job. For the purposes of MASCO 2020, two dimensions of skill are used as follows;

1) Skill level is a function of the complexity and range of tasks and duties to be performed in an occupation. Creativity, talent and artistry can also be defined as skills; and
2) Skill specialisation is determined by the field of knowledge required, the tools and machinery used, the materials worked on or with, the technology and software used, and the kinds of goods and services produced and not by manual labour alone.

The operational definitions of the four main skill levels are summarised as follows:

Skill Level	Educational Level
First	Primary education
Second	Secondary or post-secondary education; Malaysian Skills Certificate (SKM) Level 1 to Level 3*
Third	Tertiary education leading to an award not equivalent to a first degree; Malaysian Skills Certificate (SKM) Level 3 or Malaysian Skills Diploma (DKM) Level 4
Fourth	Tertiary education leading to a university degree or postgraduate degree; or Malaysian Skills Diploma (DKM) Level 5 and above

* Depending on the level of skill requirements of a job

Major Group		Education Level	Skill Level
2	Professionals	Tertiary education to a university degree or postgraduate degree: Malaysian Skill Advanced Diploma (DLKM) Level 5 and above.	Fourth
3	Technician and Associate Professionals	Tertiary education leading to an award not equivalent to a first degree; Malaysian Skill Certificate (SKM) Level 3 or Malaysian Skill Diploma (DKM) Level 4	Third
4	Clerical Support Workers	Secondary or post-secondary education; Malaysian Skill Certificate (SKM) Level 1 to Level 3*	Second
5	Service and Sales Workers		
6	Skilled Agricultural, Forestry, Livestock and Fishery Workers		
7	Craft and Related Trades Workers		
8	Plant and Machine Operations and Assemblers		
9	Elementary Occupations	Primary education	First

* Depending on the skill level of a job

Normally, Major Groups 2 to 9 take into account the level of education and the level of skills in determining its classification. For group 1 and group 0 are not tied to their level of education.

The use of the education categories to define the four skill levels does not mean that the skills necessary to perform the tasks and duties of a given occupation can be acquired only through formal education. The skills may also be acquired through informal training and experience. Therefore, when classifying an occupation, for example engineer, it does not mean that the post can be filled only by a registered engineer, although the activities may be similar to those undertaken by the said engineer. In addition, the focus is on the skills needed to carry out the tasks and duties and not on whether a worker having a particular occupation is more or less skilled than another worker in the same occupation.

DIFFERENCES IN MASCO 2020

MASCO 2020 has been updated in line with new technological advances and global economic developments. Among the main changes introduced in MASCO 2020 are :

a) restructuring, reorganization, coordinating and reclassifying as well as develop and create new groups;
b) formation of positions that are no longer relevant to the current market;
c) addition of positions from public and private agencies in line with the trend of high-tech employment; and
d) addition of job descriptions and task in line with the development and change in advanced technology.

STATISTIC

MASCO 2020 provides the following number of occupational titles for each group:

Major Group	Sub-Major Group	Minor Group	Unit Group	Minor Unit Group
1 Managers	6	11	38	551
2 Professional	9	37	123	2,171
3 Technician and Associate Professionals	7	23	90	1,211
4 Clerical Support Workers	4	8	28	372
5 Service and Sales Workers	4	13	41	317
6 Skilled Agriculture, Forestry, Livestock and Fishery Workers	3	9	19	213
7 Craft and Related Trades Workers	6	14	67	672
8 Plant and Machine Operators and Assemblers	3	15	42	713
9 Elementary Occupations	6	11	35	265
0 Armed Forces	3	6	7	145
	51	**147**	**490**	**6,630**

In the above classification, all occupations are categorised into ten (10) major groups (1-digit). Subsequently, the major groups are divided into 51 sub-major groups (2-digit) which comprise 146 minor groups (3-digit). The minor groups are further divided into 490 unit groups (4-digit) and the unit groups are further divided into 6,366 minor unit groups (6-digit).

NOTES ON CERTAIN OCCUPATIONS

Supervisory occupations, as well as foremen, which are mainly concerned with professional and technical quality control of work done, are classified together with the jobs whose tasks they supervise. However, if the main tasks and duties consist of planning, organising and directing the daily work activities of a group of subordinate workers, the occupation should be considered as a managerial occupation and classified in Major Group 1: Managers. Only in certain organisations, such as in large companies with many levels of decision-making, where between the supervisor and the operators there is at least one other supervisory level, and at the same time there is one or more levels between the supervisor and the management, supervisors may be grouped in Major Group 3: Technicians and Associate Professionals.

Working proprietors are not listed as a special group but classified according to their activities. A shop owner who spends most of the time behind the counter and helping the customers should be classified under Sub-Major Group 52: Sales Workers. If, however, his/ her activities consist mainly of managing resources, finance and personnel, he/ she should be classified under Sub-Major Group 12: Administrative and Commercial Managers.

Occupations mainly concerned with on-the-job training through continuous observation, assessment and guidance are classified with the occupations whose workers they instruct, in a particular trade, craft or machine-operating task.

Apprentices and trainees are classified according to the tasks and duties actually performed, and not according to their future occupation.

For public sector positions, the principles of classification are flexible suit the needs of public sector grade. Job titles with prefixes refer to posts in the public sector, including positions in statutory bodies and local authorities (for example: Civil Engineer, Grade J41). Job titles without prefixes (except the military under group 0) refer to posts in the private sector (for example: Civil Engineer). The difference in job titles in the public and private sectors does not distinguish the tasks under the code being referred. For the position of the public sector, which is listed grade refers to the grade of appointment.

There are specific positions in the public sector such as UiTM Lecturer and Cadet Officer where the appointments were gazetted in accordance with the requirements of the relevant parties. In addition, there are also special designations such as Bentara Parlimen who perform special administration task in Parliament .

There is also repetition of the same position due to the separation of employment by gender (such as steward and stewardess).

CHALLENGES IN DEVELOPING MASCO 2020

1. Difficulty in putting job titles that use names or terminology with identical meaning (for example: Assistant, Senior, Junior, Executive and Chief)
2. Adapting the names of traditional job titles or local names (for example: Kapitan, Head of the Household/Head of the Longhouse, Headman/Village Chief, Dang Pawara, Sergeant-at-Arms (Meeting), Sergeant-at-Arms (Parliament))
3. Coordinating or adapting names that are popular or which serve to promote or boost morale from the job title created (for example: Sales/Product Ambassador, Concierge, Customer Service and Global Support Service Executive, IT, Butler, Barista)
4. Difficulty to translate some of the job titles in both languages which may refer to different meaning
5. Repetition of positions to meet the staffing needs of the public sector which uses the same name by placing a grade to the position to distinguish them from those in the private sector
6. The need to meet customer needs in line with the implementation of job portal for the purpose of job selection and application in the public and private sectors (for example: Civil Engineer Grade J41 Is used by the public sector and Civil Engineer is used by the private sector)
7. Coordinate the job title that exist as a result of new technology changes that can cross the field such as Industry IR4.0 jobs especially in Artificial Intelligence (AI), Virtual Reality (VR), Augmented Reality (AR), robotics, Green Jobs Technology, virtual jobs and others

SUMMARY OF MAJOR GROUPS

Major Group 1: Managers	Plan, analyze, formulate, direct and advise on government policies, or carry out similar tasks on behalf of special interest organizations; or plan, organize, lead, control and coordinate the policies and activities of an enterprise, organization, department or internal section.
Major Group 2: Professional	Increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these three activities
Major Group 3: Technician and Associate Professional	Perform technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations
Major Group 4: Clerical Support Workers	Record, organise, store and retrieve related information and perform clerical duties especially in connection with administrative operations, handling of money, travel arrangements and requests for information and appointments
Major Group 5: Service and Sales Workers	Provide personal services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments as well as at stalls and markets
Major Group 6: Skilled Agricultural, Forestry, Livestock and Fishery Workers	Grow and harvest field or tree and shrub crops, gather wild fruit, herbs and vegetables, breed, tend or hunt animals, produce a variety of animal husbandry products, cultivate, conserve and gather forest products, breed or catch fish and cultivate or gather other forms of aquatic life
Major Group 7: Craft and Related Trades Workers	Apply their specific knowledge and skills in the fields of mining and construction, metal forming, and erect metal structures, make, fit, maintain and repair machinery, equipment or tools, carry out printing work as well as produce or process foodstuffs, textiles, or wooden, metal and other articles including handicraft goods
Major Group 8: Plant and Machine Operators and Assemblers	Operate and monitor industrial and agricultural machinery and equipment, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble product component parts according to strict specifications and procedures
Major Group 9: Elementary Workers	Perform simple, routine and non-systematic tasks which mainly require the use of handheld tools or with the assistance of simple machines, and in some cases considerable physical effort
Major Group 0: Armed Forces	The Malaysian Armed Forces (MAF) is divided into three branches, namely the Malaysian Army (MA), Royal Malaysian Navy (RMN) and Royal Malaysian Air Force (RMAF). The main role of the MAF is to defend the sovereignty and territorial integrity of the country against external threats whereas its secondary role is to assist the public authorities in restoring and maintaining public order, enforcing maritime law, defending against internal threats, assisting in disaster relief and national development operations as well as providing support in peacekeeping efforts under the banner of the United Nations (UN)

MAJOR GROUP 1
MANAGERS

MANAGERS

1

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

11 CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS

111 LEGISLATORS AND SENIOR OFFICIALS

1111 LEGISLATORS
1112 SENIOR GOVERNMENT OFFICIALS
1113 TRADITIONAL CHIEFS AND HEADS OF VILLAGE
1114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS

112 MANAGING DIRECTORS AND CHIEF EXECUTIVES

1121 MANAGING DIRECTORS AND CHIEF EXECUTIVES

12 ADMINISTRATIVE AND COMMERCIAL MANAGERS

121 BUSINESS SERVICES AND ADMINISTRATION MANAGERS

1211 FINANCE MANAGERS
1212 HUMAN RESOURCE MANAGERS
1213 POLICY AND PLANNING MANAGERS
1214 BUSINESS SERVICES MANAGERS
1215 ADMINISTRATIVE MANAGERS
1216 QUALITY MANAGERS
1219 BUSINESS SERVICES AND ADMINISTRATION MANAGERS NOT ELSEWHERE CLASSIFIED

122 SALES, MARKETING AND DEVELOPMENT MANAGERS

1221 SALES AND MARKETING MANAGERS
1222 ADVERTISING AND PUBLIC RELATIONS MANAGERS
1223 RESEARCH AND DEVELOPMENT MANAGERS

13 PRODUCTION AND MANUFACTURING MANAGERS

131 PRODUCTION MANAGERS

1311 AGRICULTURAL, FORESTRY AND LIVESTOCK PRODUCTION MANAGERS
1312 AQUACULTURE AND FISHERIES PRODUCTION MANAGERS

132 MANUFACTURING, MINING, CONSTRUCTION AND DISTRIBUTION MANAGERS

1321 MANUFACTURING MANAGERS
1322 MINING MANAGERS
1323 CONSTRUCTION MANAGERS
1324 SUPPLY, DISTRIBUTION AND RELATED MANAGERS

14 HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS

141 HOTEL AND RESTAURANT MANAGERS

1411 HOTEL AND HOMESTAY MANAGERS
1412 RESTAURANT MANAGERS

142 RETAIL AND WHOLESALE TRADE MANAGERS

1421 RETAIL AND WHOLESALE TRADE MANAGERS

15 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

151 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

1511 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

16 SERVICES MANAGERS

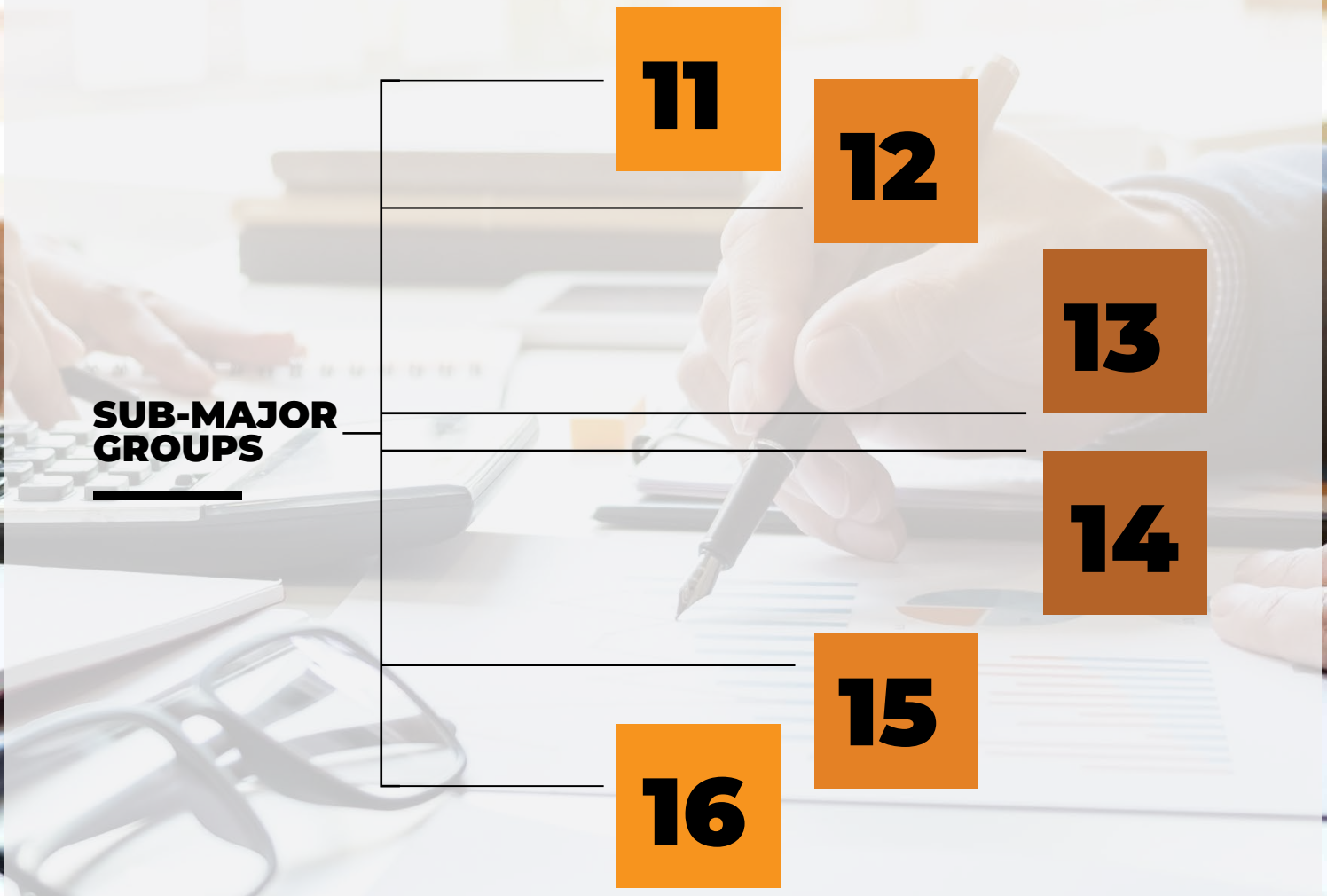
161 PROFESSIONAL SERVICES MANAGERS

1611 CHILD CARE SERVICES MANAGERS
1612 HEALTH SERVICES MANAGERS
1613 AGED CARE SERVICES MANAGERS
1614 SOCIAL WELFARE MANAGERS
1615 EDUCATION MANAGERS
1616 FINANCIAL AND INSURANCE SERVICES BRANCH MANAGERS
1617 LEGAL MANAGERS
1618 PROPERTY MANAGERS
1619 PROFESSIONAL SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED

162 OTHER SERVICES MANAGERS

1621 SPORTS AND RECREATION CENTRE MANAGERS
1622 PERSONAL CARE, CLEANING AND RELATED SERVICES MANAGERS
1623 SECURITY MANAGERS
1624 CULTURAL CENTRE, MUSEUM AND LIBRARY MANAGERS
1629 OTHER SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED

MANAGERS



11 CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS
12 ADMINISTRATIVE AND COMMERCIAL MANAGERS
13 PRODUCTION AND MANUFACTURING MANAGERS
14 HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS
15 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS
16 SERVICES MANAGERS

MANAGERS

Description

The Managers plan, analyze, formulate, direct and advise on government policies, or carry out similar tasks on behalf of special interest organizations; or plan, organize, lead, control and coordinate the policies and activities of an enterprise, organization, department or internal section.

Skills level

Reference to the skill level is open and not strict to education level. However, employment in this major group primarily requires education skills level at the fifth to eighth levels.

Occupations in this major group are classified into the following sub-major groups:

11 CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS
12 ADMINISTRATIVE AND COMMERCIAL MANAGERS
13 PRODUCTION AND MANUFACTURING MANAGERS
14 HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS
15 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS
16 SERVICES MANAGERS

SUB-MAJOR 11 CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS

Chief Executives, Senior Officials and Legislators formulate and review the policies, and plan, direct, coordinate and evaluate the overall activities of enterprises, governments and other organizations with the support of other managers.

Occupations in this sub-major group are classified into the following minor groups:

111 LEGISLATORS AND SENIOR OFFICIALS
112 MANAGING DIRECTORS AND CHIEF EXECUTIVES

MINOR GROUP 111 LEGISLATORS AND SENIOR OFFICIALS

Legislators and Senior Officials determine, formulate, advise on and direct the implementation of policies of national, state, regional or local governments or communities, and of special-interest organizations. They make, ratify, amend or repeal laws, public rules and regulations, and plan, organize, direct, control and evaluate the overall activities of government departments and agencies, traditional communities and special-interest organizations.

Occupations in this minor group are classified into the following unit groups:

1111 LEGISLATORS
1112 SENIOR GOVERNMENT OFFICIALS
1113 TRADITIONAL CHIEFS AND HEADS OF VILLAGE
1114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS

UNIT GROUP 1111 LEGISLATORS

Legislators determine, formulate and direct policies of national, state, regional or local governments and international governmental agencies, and make, ratify, amend or repeal laws, public rules and regulations.

Tasks include:

a) presiding over or participating in the proceedings of legislative bodies and administrative councils of national, state, regional or local governments or legislative assemblies;
b) determining, formulating and directing policies of national, state, regional or local governments;
c) making, ratifying, amending or repealing laws, public rules and regulations within a statutory or constitutional framework;
d) serving on government administrative boards or official committees;
e) investigating matters of concern to the public and promoting the interests of the constituencies which they represent;
f) attending community functions and meetings to provide service to the community, understand public opinion and provide information on government plans;

g) negotiating with other legislators and representatives of interest groups in order to reconcile differing interests, and to create policies and agreements;
h) as members of the government, directing senior administrators and officials of government departments and agencies in the interpretation and implementation of government policies;
i) performing related tasks; and
j) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1111)

1111-01	Prime Minister
1111-02	Deputy Prime Minister
1111-03	Minister
1111-04	Deputy Minister

UNIT GROUP 1112 SENIOR GOVERNMENT OFFICIALS

Senior Government Officials advise governments on policy matters, oversee the interpretation and implementation of government policies and legislation by government departments and agencies, represent their country abroad and act on its behalf, or carry out similar tasks in intergovernmental organisations. They plan, organise, direct, control and evaluate the overall activities of municipal or local, regional and national government departments, councils, agencies or commissions in accordance with legislation and policies established by government and legislative bodies.

Tasks include:
a) advising federal, state, regional or local governments on policy matters;
b) advising on the preparation of government budgets, laws and regulations, including amendments;
c) formulating or approving and evaluating programmes and procedures for implementation by the government;
d) recommending, reviewing, evaluating and approving documents and reports submitted by middle managers and senior staff members;
e) ensuring appropriate systems and procedures are developed and implemented to provide budgetary control;
f) making presentations to legislative and other government committees on policy planning or budget allocations;
g) overseeing the interpretation and implementation of goverment policies and laws by government departments and agencies;
h) performing related tasks; and
i) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1112)

1112-01	The Keeper of the Rulers' Seal
1112-02	Chief Secretary to the Government
1112-03	Director-General of Public Service
1112-04	Attorney General

UNIT GROUP 1113 TRADITIONAL CHIEFS AND HEADS OF VILLAGE

Traditional Chiefs and Heads of Village perform a variety of legislative, administrative and ceremonial tasks and duties determined by traditions, as well as by the division of rights and responsibilities between village heads and the local, regional and national authorities.

Tasks include:
a) performing duties as a liaison officer to disseminate information about the state administration, government policies, and organise community development in the mukim;
b) focusing on aspects of development, administration, religion and culture in the mukim;
c) settling disputes between members of the community or village;
d) disciplining members of the community or village for violation of rules and customs;
e) performing ceremonial duties in connection with births, marriages, deaths, harvests and other traditional festivities;
f) representing the community or village in local or regional councils;
g) informing the community or village about government directives and regulations; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 1113)

1113-01	Headman Grade NP29
1113-02	Demang
1113-03	Penggawa
1113-04	Village Head

UNIT GROUP 1114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS

Senior Officials of Special-Interest Organisations determine, formulate and direct the implementation of policies of special interest organisations such as political party organisations, trade unions, employers' organisations, trade and industry associations, humanitarian or charity organisations, or sports associations, and act on their behalf.

Tasks include:

a) determining and formulating the policies, rules and regulations of the political party or organisation;
b) planning, directing and coordinating the general functioning of the organisation;
c) reviewing the operations and results of the organisation meetings and reporting to the board of directors and governing bodies, the organisation's membership and funding agencies;
d) planning, organising and directing divisions charged with implementing the organisation's policies;
e) ensuring appropriate systems and procedures are developed and implemented to provide budgetary control;
f) monitoring and evaluating the performance of the organisation or enterprise against established objectives and policies;
g) representing the organisation on official occasions and at board meetings, in negotiations, at conventions, public hearings and forums;
h) performing related tasks; and
i) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1114)

1114-01	President of Political Party
1114-02	President of Employers' Federation
1114-03	President of Trades Union Congress
1114-04	President of Congress of Union of Employees in the Public and Civil Services

MINOR GROUP 112 MANAGING DIRECTORS AND CHIEF EXECUTIVES

Managing Directors and Chief Executives formulate and review policies and plan, coordinate and evaluate the overall activities of enterprises or organisations (except special interest organisations and government departments) with the support of other managers, usually within guidelines established by a board of directors or a governing body to whom they are answerable for the operations undertaken and results.

Occupations in this sub-major group are classified into the following minor groups:

1121 MANAGING DIRECTORS AND CHIEF EXECUTIVES

UNIT GROUP 1121 MANAGING DIRECTORS AND CHIEF EXECUTIVES

Managing Directors and Chief Executives formulate and review policies and plan, direct, coordinate and evaluate the overall activities of enterprises or organisations (except special interest organisations and government departments) with the support of other managers, usually within guidelines established by a board of directors or a governing body to whom they are answerable for the operations undertaken and results.

Tasks include:

a) planning, directing and coordinating the general functions of the enterprise or organisation;
b) reviewing the operations and results of the enterprise or organisation and reporting to the board of directors and governing bodies;
c) determining objectives, strategies, policies and programmes for the enterprise or organisation;
d) providing overall leadership and management to the enterprise or organisation;
e) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
f) monitoring and evaluating the performance of the organisation or enterprise against established objectives and policies;

g) consulting and reviewing recommendations and reports with senior subordinate staff;
h) representing the organisation at official occasions and board meetings, in negotiations, at conventions, seminars, public hearings and forums;
i) selecting or approving the selection of senior staff;
j) ensuring the organisation complies with relevant legislation and regulations;
k) performing related tasks; and
l) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: **(refer to index; unit group 1121)**

1121-01	Chief Executive Officer
1121-02	Chief Operating Officer
1121-03	Chief Legal Officer
1121-04	Chief Technical Officer

SUB-MAJOR 12 ADMINISTRATIVE AND COMMERCIAL MANAGERS

Administrative and Commercial Managers plan, organise, direct, control and coordinate activities concerning the finances, administration, human resource, policies, planning, research and development, advertising, public relations, and sales and marketing of enterprises and organisations, or of enterprises that provide such services to other enterprises and organisations.

Occupations in this sub-major group are classified into the following minor groups:

121 BUSINESS SERVICES AND ADMINISTRATION MANAGERS
122 SALES, MARKETING AND DEVELOPMENT MANAGERS

MINOR GROUP 121 BUSINESS SERVICES AND ADMINISTRATION MANAGERS

Business Services and Administration Managers plan, organise, direct, control and coordinate activities concerning the finances, administration, human resource, business, quality and policy planning of organisations, or of enterprises that provide such services to other enterprises and organisations.

Occupations in this minor group are classified into the following unit groups:

1211 FINANCE MANAGERS
1212 HUMAN RESOURCE MANAGERS
1213 POLICY AND PLANNING MANAGERS
1214 BUSINESS SERVICES MANAGERS
1215 ADMINISTRATIVE MANAGERS
1216 QUALITY MANAGERS
1219 BUSINESS SERVICES AND ADMINISTRATION MANAGERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 1211 FINANCE MANAGERS

Finance Managers plan, direct and coordinate the financial operations of an enterprise or organization, in consultation with senior managers and with managers of other departments or sections, or of enterprises that provide financial services to other enterprises and organizations.

Tasks include:
a) planning, directing, controlling and coordinating the internal financial operations of the enterprise or organisation;
b) ensuring the organisation's financial statements have been dealt with in the right manner;
c) assessing the financial situation of the enterprise or organisation, preparing budgets and overseeing various financial operations;
d) consulting with the chief executive and with managers of other divisions and departments;
e) controlling expenditure and ensuring efficient use of resources;
f) planning and directing daily operations;
g) overseeing the selection, training and performance of staff;
h) representing the department in its dealings with other divisions of the organisation or with external agencies;
i) performing related tasks; and
j) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1211)

1211-01	Chief Financial Officer
1211-02	Finance Manager
1211-03	Account Manager
1211-04	Budget Manager

UNIT GROUP 1212 HUMAN RESOURCE MANAGERS

Human Resource Managers plan, organise, direct, control and coordinate policies concerning the personnel, industrial relations and occupational safety and health of an enterprise or organisation, or of enterprises that provide human resource services to other enterprises and organisations.

Tasks include:

a) planning, directing and coordinating policies concerning activities of personnel and the industrial relations of the enterprise or organisation;
b) planning and organising procedures for recruitment, training, promotion, transfer and dismissal of staff;
c) planning and organising negotiations and procedures for determination of wage structures and levels and for consultation with workers on conditions of employment;
d) overseeing safety, health and related activities;
e) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
f) establishing and directing operational and administrative procedures;
g) overseeing the development and implementation of management information systems;
h) ensuring compliance with standards and legislation relating to employees' rights, safety and health, equal opportunity and related concerns;
i) overseeing the selection, training and performance of staff for the entire enterprise or organisation;
j) consulting with the senior management and with managers of other departments;
k) representing the enterprise or organisation in external matters;
l) performing related tasks; and
m) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1212)

1212-01	Chief Human Resources Officer
1212-02	Human Resource Manager
1212-03	Training Manager
1212-04	Industrial Relations Manager

UNIT GROUP 1213 POLICY AND PLANNING MANAGERS

Policy and Planning Managers plan, organise, coordinate and advise on policy and strategic planning activities within the government or for non-government organisations and private sector agencies, or manage the activities of enterprises that provide policy and strategic planning services.

Tasks include:

a) developing, implementing and monitoring strategic plans, programmes, policies, processes, systems and procedures to achieve goals, objectives and work standards;
b) developing, directing, administering and participating in policy research and analysis;
c) analysing and interpreting results of studies, and preparing reports detailing findings, recommendations or conclusions;
d) designing, evaluating and modifying policies to ensure that programmes are effective and in compliance with legal requirements;
e) performing related tasks; and
f) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1213)

1213-01	Policy and Planning Manager
1213-02	Strategic Planning Manager
1213-03	Corporate Planning Manager
1213-04	Policy and Research Manager

UNIT GROUP 1214 BUSINESS SERVICES MANAGERS

Business Services Managers plan, organise, direct, control and coordinate sales and marketing activities of an enterprise or organisation.

Tasks include:

a) planning, directing and coordinating the business services activities of the enterprise or organisation;
b) planning and organising special sales and marketing programmes based on sales records and market assessments;
c) planning, administering and reviewing customer services and after-sales services and maintaining good customer relations;
d) determining price lists, discounts and delivery terms, credit arrangements, product mix, geographical sales areas, sales promotion budgets, sales methods, customer service standards, special incentives and special campaigns;
e) directing merchandising methods and distribution policy by coordinating the work of salespersons or organising appointment of agents and distributors;
f) controlling expenditure and ensuring the efficient use of resources;
g) monitoring customer service, invoicing, payments and administration costs;
h) establishing and directing operational and administrative procedures;
i) planning and directing daily operations;
j) overseeing the selection, training and performance of staff;
k) representing the department in its dealings with other divisions of the organisation or with external agencies;
l) performing related tasks; and
m) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1214)

1214-01	Chief Compliance Officer
1214-02	Production Manager
1214-03	Production and Business Operation Manager
1214-04	Business Services Development Manager

UNIT GROUP 1215 ADMINISTRATIVE MANAGERS

Administrative Managers plan, organise, direct, develop, review and improve administrative systems, policies and procedures of an enterprise or organisation.

Tasks include:

a) providing administrative, strategic planning and operational support, research and advice to senior management on administrative;
b) developing and managing the organization's administrative and physical resources;
c) developing and implementing administrative and procedural statements and guidelines for use by staff in the organization;
d) analysing complex resource management issues and initiatives that affect the organization, and preparing associated reports, correspondence and submissions;
e) leading, managing and developing administrative staff to ensure smooth business operations and the provision of accurate and timely information;
f) representing the enterprise or organization in negotiations, and at conventions, seminars, public hearings and forums;
g) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
h) performing related tasks; and
i) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1215)

1215-01	Administrative Manager
1215-02	Administrative Services Manager
1215-03	Asset Development Lead
1215-04	Infrastructure Manager

UNIT GROUP 1216 QUALITY MANAGERS

Quality Managers plan, direct and responsible for overall development, implementation, and maintenance of the organization's Quality Management System (QMS).

Tasks include:

a) ensuring that the organization's Quality Management System complies with customer requirements,internal operations, ISOs, and regulatory / legal requirements;

b) supervising the inspections of incoming materials, ensuring that they meet the needs of theorganization;
c) managing monitoring, measurement and review of quality standards;
d) leading the team of quality engineers, inspectors, auditors, analysts, and technicians;
e) maintaining standards, regulations / laws, issues and matters relating to product quality (service);
f) performing related tasks; and
g) managing, planning, scheduling and monitoring the work of other employees.

Examples of the occupations classified here: (refer to index; unit group 1216)

1216-01	Quality Control Manager
1216-02	Quality Assurance Manager
1216-03	Quality Assurance Manager, Halal Food Manufacturing
1216-04	Quality Assurance Manager, Halal Meat Processing

UNIT GROUP 1219 BUSINESS SERVICES AND ADMINISTRATION MANAGERS NOT ELSEWHERE CLASSIFIED

This unit group covers Business Services and Administration Not Elsewhere Classified in Minor Group 121: Business Services and Administration Managers.

Tasks include:
a) providing information and support for the preparation of financial reports and budgets;
b) planning and implementing policies;
c) making budgetary estimates;
d) negotiating with suppliers, customers and other organisations;
e) planning and controlling the use of human resources;
f) performing related tasks; and
g) managing, planning, scheduling and monitoring the tasks of other workers.

MINOR GROUP 122 SALES, MARKETING AND DEVELOPMENT MANAGERS

Sales, Marketing and Development Managers plan, organise, direct, control and coordinate activities concerning advertising, public relations, research and development, and sales and marketing of enterprises and organisations, or of enterprises that provide such services to other enterprises and organisations.

Occupations in this minor group are classified into the following unit groups:

1221 SALES AND MARKETING MANAGERS
1222 ADVERTISING AND PUBLIC RELATIONS MANAGERS
1223 RESEARCH AND DEVELOPMENT MANAGERS

UNIT GROUP 1221 SALES AND MARKETING MANAGERS

Sales and Marketing Managers plan, organise, direct, control and coordinate activities concerning the sales and marketing of an enterprise or organisation, or of enterprises that provide sales and marketing services to other enterprises and organisations.

Tasks include:
a) planning, directing and coordinating the sales and marketing activities of the enterprise or organisation;
b) planning and organising special sales and marketing programmes based on sales records and market assessments;
c) planning, administering and reviewing customer services and after-sales services and maintaining good customer relations;
d) determining price lists, discounts and delivery terms, credit arrangements, product mix, geographical sales areas, sales promotion budgets, sales methods, customer service standards, special incentives and special campaigns;
e) directing merchandising methods and distribution policy by coordinating the work of salespersons or managing the appointment of agents and distributors;
f) controlling expenditure and ensuring the efficient use of resources;
g) monitoring customer service, invoicing, payments and administration costs;
h) planning and directing daily operations;

i) overseeing the selection, training and performance of staff;
j) representing the department in its dealings with other divisions of the organisation or with external agencies;
k) performing related tasks; and
l) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1221)

1221-01	Chief Marketing Officer
1221-02	Sales Manager
1221-03	Sales and Marketing Manager
1221-04	Marketing Manager

UNIT GROUP 1222 ADVERTISING AND PUBLIC RELATIONS MANAGERS

Advertising and Public Relations Managers plan, organise, direct, control and coordinate the advertising and public relations activities of enterprises and organisations or of enterprises that provide related services to other enterprises and organisations.

Tasks include:
a) planning, directing and coordinating the advertising and public relations activities of the enterprise or organisation;
b) negotiating advertising contracts with officials of newspapers, radio and television stations, sports and cultural organisations and advertising agencies;
c) planning and managing information programmes for legislators, the mass media and general public about the plans, accomplishments and points of view of the enterprise or organisation;
d) controlling expenditure and ensuring the efficient use of resources;
e) establishing and directing operational and administrative procedures;
f) planning and directing daily operations;
g) overseeing the selection, training and performance of staff;
h) representing the department in its dealings with other divisions of the organisation or with external bodies;
i) performing related tasks; and
j) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1222)

1222-01	Advertising Manager
1222-02	General Affairs Manager
1222-03	Communications Manager
1222-04	Public Relations Manager

UNIT GROUP 1223 RESEARCH AND DEVELOPMENT MANAGERS

Research and Development Managers plan, organise, direct, control and coordinate the research and development activities of organisations or of enterprises that provide development services to other enterprises and organisations.

Tasks include:
a) planning, directing and coordinating research and development activities, whether in-house or commissioned by external research organisations, to develop or improve technical processes, products, knowledge or utilisation of materials;
b) planning the overall research and development programme of the enterprise or organisation, specifying budgetary requirements;
c) controlling expenditure and ensuring the efficient use of resources;
d) planning and directing daily operations;
e) overseeing the selection, training and performance of staff;
f) representing the department in its dealings with other divisions of the organisation or with external agencies;
g) performing related tasks; and
h) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1223)

1223-01	Research and Development Manager
1223-02	Product Development Manager
1223-03	Research Manager
1223-04	Research and Development Manager, Halal Food Manufacturing

SUB-MAJOR 13 PRODUCTION AND MANUFACTURING MANAGERS

Production and Manufacturing Managers plan, organise, direct, control and coordinate the production of goods and the provision of specialised technical and professional services by an enterprise or organisation. They are responsible for manufacturing, mining, construction, logistics and large scale agricultural, forestry and fishery operations.

Occupations in this sub-major group are classified into the following minor groups:

131 PRODUCTION MANAGERS
132 MANUFACTURING, MINING, CONSTRUCTION AND DISTRIBUTION MANAGERS

MINOR GROUP 131 PRODUCTION MANAGERS

Production Managers plan, organise, direct, control and coordinate the production of agricultural, horticultural, forestry, aquaculture and fishery operations on a large scale such as plantations and agricultural cooperatives to cultivate and harvest crops, breed and raise livestock, fish and shellfish and to catch and process fish products and other forms of aquatic life.

Occupations in this minor group are classified into the following unit groups:

1311 AGRICULTURAL, FORESTRY AND LIVESTOCK PRODUCTION MANAGERS
1312 AQUACULTURE AND FISHERIES PRODUCTION MANAGERS

UNIT GROUP 1311 AGRICULTURAL, FORESTRY AND LIVESTOCK PRODUCTION MANAGERS

Agricultural, Forestry and Livestock Production Managers plan, organise, direct, control and coordinate large scale production operations in agriculture, horticulture and forestry to cultivate and harvest crops, and breed and raise livestock.

Tasks include:

a) coordinating all activities related to the park such as education, development, enforcement, eco-tourism and maintenance;
b) analysing statistical data, studies and reports to identify and determine causes of problems and offering recommendations for improvement of agricultural systems, procedures or programmes;
c) monitoring agricultural and forestry market activities and planning production to meet market requirements and demand;
d) establishing and managing budgets, monitoring production and recording information such as farm management practices, and preparing financial and operational reports;
e) conferring with buyers to arrange for the sale of crops and livestock;
f) contracting with farmers or independent owners for production of crops and livestock, or for management of production;
g) planning the type, intensity and method of farm operations (e.g. determining the best times for planting, spraying and harvesting);
h) analysing soil to determine the types and quantities of fertiliser required for maximum production;
i) purchasing machinery, equipment and supplies such as tractors, seeds, fertiliser and chemicals;
j) identifying and controlling toxins, weeds, pests and diseases on agricultural land and forests;
k) organising farming operations such as maintaining buildings, water supply systems and equipment;
l) performing related tasks; and
m) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1311)

1311-01	Park / Estate Manager Grade G41
1311-02	Forestry Manager
1311-03	Plantation Manager
1311-04	Horticulture Manager

UNIT GROUP 1312 AQUACULTURE AND FISHERIES PRODUCTION MANAGERS

Aquaculture and Fisheries Production Managers plan, organise, direct, control and coordinate aquaculture and fishery production operations to catch and process fish or shellfish, and to breed fish, shellfish or other forms of aquatic life as cash crops or for release into freshwater or saltwater.

Tasks include:

a) planning and implementing policies and legislation;
b) planning, directing and coordinating activities concerning the production of aquaculture and fishery to meet market demand;
c) conducting and organising aquaculture or fishery stock examinations in order to identify diseases or parasites;
d) devising and coordinating activities to improve fish hatching and growth rates, and to prevent disease in hatcheries;
e) monitoring the environment to maintain or improve conditions for aquatic life;
f) directing and monitoring trapping and spawning of fish, egg incubation, and applying knowledge of management and fish culturing techniques;
g) ensuring the efficient use of resources and the fulfillment of production quotas;
h) planning and directing daily operations;
i) making budgetary estimates and controlling expenditure;
j) establishing and directing operational and administrative procedures;
k) overseeing the application of work safety and related procedures;
l) overseeing the selection, training and performance of staff;
m) negotiating with suppliers, customers and other organisations;
n) performing related tasks; and
o) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index unit group 1312)

1312-01	Fishery Manager
1312-02	Production and Operation Manager, Fishery
1312-03	Aquaculture Production Manager
1312-04	Fishing Operations Manager

MINOR GROUP 132 MANUFACTURING, MINING, CONSTRUCTION AND DISTRIBUTION MANAGERS

Manufacturing, Mining, Construction and Distribution Managers plan, organise, direct, control and coordinate the manufacturing, mineral extraction, construction, distribution, storage and transport operations.

Occupations in this minor group are classified into the following unit groups:

1321 MANUFACTURING MANAGERS
1322 MINING MANAGERS
1323 CONSTRUCTION MANAGERS
1324 SUPPLY, DISTRIBUTION AND RELATED MANAGERS

UNIT GROUP 1321 MANUFACTURING MANAGERS

Manufacturing Managers plan, organise, direct, control and coordinate manufacturing production activities of large enterprises or manage a small manufacturing company.

Tasks include:

a) planning and implementing policies and legislation;
b) determining, implementing and monitoring production strategies, policies and plans;
c) planning, directing and coordinating activities concerning the production of goods;
d) ensuring the efficient use of resources and the fulfilment of production quotas;
e) planning and directing daily operations;
f) making budgetary estimates and controlling expenditure;
g) establishing and directing operational and administrative procedures;
h) overseeing the application of work safety and related procedures;
i) identifying business opportunities and determining the products to be manufactured;
j) overseeing the selection, training and performance of staff;
k) negotiating with suppliers, customers and other organisations;
l) representing the department in its dealings with other divisions of the enterprise or with external agencies;

m) ensuring all production processes meet the manufacturing specification;
n) ensuring optimal utilisation of manpower, machine and equipment;
o) performing related tasks; and
p) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1321)

1321-01	Manufacturing Manager
1321-02	Production and Operation Manager, Manufacturing
1321-03	Factory Manager
1321-04	Electrical Manager

UNIT GROUP 1322 MINING MANAGERS

Mining Managers plan, organise, direct, control and coordinate the activities concerning mining, quarrying and oil and gas extraction operations.

Tasks include:
a) planning, directing and coordinating activities concerning the extraction of minerals, oil and gas;
b) conferring with other managers to set production quotas and plan extraction sites;
c) ensuring the efficient use of resources and the fulfilment of production quotas;
d) planning and directing daily operations;
e) making budgetary estimates and controlling expenditure;
f) establishing and directing operational and administrative procedures;
g) overseeing the application of work safety and related procedures;
h) overseeing the selection, training and performance of staff;
i) representing the department in its dealings with other divisions of the enterprise or with external agencies;
j) performing related tasks; and
k) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1322)

1322-01	Production and Operation Manager, Mine
1322-02	Production and Operation Manager, Quarry
1322-03	Production and Operation Manager, Oil and Gas Extraction
1322-04	Oil and Gas Extraction Manager

UNIT GROUP 1323 CONSTRUCTION MANAGERS

Construction Managers plan, organise, direct, control and coordinate activities concerning the construction of civil engineering projects, buildings and dwellings.

Tasks include:
a) planning, directing and coordinating activities concerning the construction of buildings, dams, highways, pipelines and related construction projects;
b) interpreting architectural drawings and specifications;
c) negotiating with building owners, property developers and subcontractors involved in the construction process to ensure projects are completed on time and within budget;
d) planning procedures for construction on basis of starting and completion times and staffing requirements for each phase of construction, based on knowledge of available tools and equipment and various building methods;
e) planning and organising daily operations;
f) controlling expenditure;
g) directing operational and administrative procedures;
h) overseeing the application of work safety and related procedures;
i) overseeing the selection, training and performance of staff;
j) performing related tasks; and
k) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1323)

1323-01	Construction Manager
1323-02	Production and Operation Manager, Construction
1323-03	Construction Contract Manager
1323-04	Construction Operation Manager

UNIT GROUP 1324 SUPPLY, DISTRIBUTION AND RELATED MANAGERS

Supply, Distribution and Related Managers plan, organise, direct, control and coordinate the supply, transport, storage and distribution of goods.

Tasks include:

a) determining, implementing and monitoring purchasing, storage and distribution strategies, policies and plans;
b) preparing and implementing plans to maintain required stock levels at minimum cost;
c) planning and implementing policies and legislation;
d) ensuring the efficient use of resources and the fulfilment of production quotas;
e) operating recording systems to track all movements of goods, and ensuring re-ordering and re-stocking at optimal times;
f) planning and directing daily operations;
g) controlling expenditure and making budgetary estimates;
h) overseeing the application of work safety and related procedures;
i) overseeing the selection, training and performance of staff;
j) negotiating with suppliers, customers and other organisations;
k) coordinating and controlling the order cycle and associated information systems;
l) analysing data to monitor performance and plan improvements;
m) developing business by securing new contracts, analysing logistical problems and finding solutions;
n) performing related tasks; and
o) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1324)

1324-01	Railway Station Master
1324-02	Transport Manager
1324-03	Supply Manager
1324-04	Warehouse Manager

SUB-MAJOR 14 HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS

Hospitality, Retail and Other Services Managers plan, organise, direct, control and coordinate the operations of establishments which provide accommodation, hospitality, retail and other services.

Occupations in this minor group are classified into the following unit groups:

141 HOTEL AND RESTAURANT MANAGERS
142 RETAIL AND WHOLESALE TRADE MANAGERS

MINOR GROUP 141 HOTEL AND RESTAURANT MANAGERS

Hotel and Restaurant Managers plan, organise, direct, control and coordinate the operations of organizations that provide accomodations, food and beverage services, and other hospitality services.

Occupations in this sub-major group are classified into the following minor groups:

1411 HOTEL AND HOMESTAY MANAGERS
1412 RESTAURANT MANAGERS

UNIT GROUP 1411 HOTEL AND HOMESTAY MANAGERS

Hotel and Homestay Managers plan, organise, direct, control and coordinate the operations of hotels, motels and similar establishments to provide accommodation and other services including food and beverage operations and housekeeping.

Tasks include:
a) planning and organising accommodation, catering, housekeeping and other hotel services;
b) promoting and marketing the business;
c) managing budgets and controlling expenditure;
d) maintaining statistical and financial records;
e) setting and achieving sales and profit targets;
f) recruiting, training and monitoring staff;
g) meeting and welcoming customers;
h) providing guests with information on local tourism, and arranging tours and transport;
i) addressing problems and troubleshooting;
j) ensuring events and conferences run smoothly;
k) supervising maintenance, supplies, renovations and furnishing;
l) dealing with contractors and suppliers;
m) ensuring security is effective;
n) carrying out inspections on property and services;
o) ensuring compliance with licensing laws, health and safety and other statutory regulations;
p) performing related tasks; and
q) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1411)

1411-01	Hotel Manager
1411-02	Hostel Manager Grade N41
1411-03	Hostel Manager
1411-04	Motel Manager

UNIT GROUP 1412 RESTAURANT MANAGERS

Restaurant Managers plan, organise, direct, control and coordinate the operations of cafes, restaurants and related establishments to provide dining and catering services.

Tasks include:
a) analysing and planning restaurant sales levels and profitability;
b) arranging the purchasing and pricing of goods according to budget;
c) planning and coordinating menus in consultation with chefs and cooks;
d) coordinating the operations of the entire restaurant;
e) ensuring dining, kitchen and food storage facilities comply with health regulations;
f) maintaining high standards of quality control, hygiene and health and safety;
g) preparing budgetary estimates;
h) ensuring compliance with occupational health and safety regulations;
i) performing related tasks; and
j) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1412)

1412-01	Restaurant Manager
1412-02	Bar Manager
1412-03	Café Manager
1412-04	Canteen Manager

MINOR GROUP 142 RETAIL AND WHOLESALE TRADE MANAGERS

Retail and Wholesale Trade Managers plan, organise, direct, control and coordinate activities concerning the operations of establishments that sell goods on a retail or wholesale basis.

Occupations in this minor group are classified into the following unit groups:

1421 RETAIL AND WHOLESALE TRADE MANAGERS

UNIT GROUP 1421 RETAIL AND WHOLESALE TRADE MANAGERS

Retail and Wholesale Trade Managers plan, organise, direct, control and coordinate the operations of establishments that sell goods on a retail or wholesale basis.

Tasks include:
a) planning, directing and coordinating activities concerning the trade carried out by the enterprise;
b) formulating and implementing purchasing and marketing policies, and setting prices;
c) promoting and advertising the establishment's goods and services;
d) ensuring efficient use of resources and trade quotas are met;
e) planning and directing daily operations;
f) controlling expenditure;
g) establishing and directing operational and administrative procedures;
h) overseeing the application of work safety and related procedures;
i) overseeing the selection, training and performance of staff;
j) performing related tasks; and
k) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1421)

1421-01	Retail Trade Manager
1421-02	Production and Operation Manager, Retail Trade
1421-03	Wholesaler
1421-04	Wholesale Trade Manager

SUB-MAJOR 15 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

Information and Communications Technology Managers plan, organise, control and coordinate the acquisition, development, maintenance and use of computers and telecommunications systems.

Occupations in this sub-major group are classified into the following minor groups:

151 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

MINOR GROUP 151 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

Information and Communications Technology Managers plan, organise, control and coordinate the acquisition, development, maintenance and use of computers and telecommunications systems.

Occupations in this minor group are classified into the following unit groups:

1511 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

UNIT GROUP 1511 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

Information and Communications Technology Managers organise, plan, direct, control and coordinate the acquisition, development, maintenance and use of computers and telecommunications systems.

Tasks include:
a) directing the formulation of information technology strategies, policies and plans;
b) consulting with users, the management, vendors and technicians;
c) directing information technology operations, computer hardware integration, operating communications systems, software application and data processing;
d) setting priorities between system development, maintenance and operations;
e) controlling the security of the information technology systems;
f) managing information technology development projects to ensure that they are completed on schedule, within budget and meet the level of quality to achieve the objective;
g) evaluating the organisation's technology use and needs and recommending improvements such as hardware and software upgrades;
h) controlling the budget and expenditure of the department or organisation;
i) overseeing the selection, training and performance of staff;
j) representing the department in its dealings with other divisions of the organisation or with external agencies;
k) performing related tasks; and
l) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1511)

1511-01	Chief Information Officer
1511-02	Chief Data Officer
1511-03	Chief Information Security Officer
1511-04	Chief Information Technology Officer

SUB-MAJOR 16 SERVICES MANAGERS

Services Managers plan, direct and coordinate activities concerning professional and other services.

Occupations in this sub-major group are classified into the following minor groups:

161 PROFESSIONAL SERVICES MANAGERS
162 OTHER SERVICES MANAGERS

MINOR GROUP 161 PROFESSIONAL SERVICES MANAGERS

Professional Services Managers plan, control and coordinate activities concerning child care, health, social welfare, education and related professional services, and manage the branches of institutions providing financial and insurance services, legal provision and property management.

Occupations in this minor group are classified into the following unit groups:

1611 CHILD CARE SERVICES MANAGERS
1612 HEALTH SERVICES MANAGERS
1613 AGED CARE SERVICES MANAGERS
1614 SOCIAL WELFARE MANAGERS
1615 EDUCATION MANAGERS
1616 FINANCIAL AND INSURANCE SERVICES BRANCH MANAGERS
1617 LEGAL MANAGERS
1618 PROPERTY MANAGERS
1619 PROFESSIONAL SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 1611 CHILD CARE SERVICES MANAGERS

Child Care Services Managers plan, control and coordinate activities concerning childcare services for children before school, after school and at day care centres.

Tasks include:

a) managing multiple professional social service programmes to protect children and families including services and activities pertaining to child abuse;
b) developing and implementing programmes to enhance the physical, social, emotional and intellectual development of young children;
c) planning and monitoring business management, facility management, human resource management and child safety requirements;
d) planning and implementing policies;
e) making budgetary estimates;
f) negotiating with suppliers, customers and other organisations;
g) planning and controlling the use of human resources and hiring of workers;
h) managing daily operations;
i) performing related tasks; and
j) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1611)

1611-01	Child Care Centre Manager

UNIT GROUP 1612 HEALTH SERVICES MANAGERS

Health Services Managers plan, control and coordinate activities concerning clinical and community health care services in hospitals, clinics, public health agencies and similar organisations.

Tasks include:

a) providing direction and management for all services, facilities of the organisation or health centre;
b) directing, supervising and evaluating the activities of medical, nursing, technical, clerical, service, maintenance and other personnel;
c) developing, implementing and monitoring procedures, policies and performance standards for medical, nursing, technical and administrative staff;
d) advising government bodies about measures to improve health and welfare services and facilities;
e) managing the recruitment, selection, appraisal and development of staff;
f) overseeing the day-to-day management of an organisation, a specific unit or a service area;
g) planning and implementing policies;
h) performing related tasks; and
i) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: : (refer to index; unit group 1612)

1612-01	Medical Services Director
1612-02	Director of Nursing
1612-03	Health Manager
1612-04	Hospital Administrator

UNIT GROUP 1613 AGED CARE SERVICES MANAGERS

Aged Care Services Managers plan, control and coordinate activities concerning care for individuals and families due to the effects of ageing.

Tasks include:

a) providing policy direction and assisting in the development of appropriate funding;
b) meeting, maintaining and exceeding the high standard of quality care and services;
c) planning and monitoring business management, facility management, human resource management and safety requirements;
d) planning and implementing policies;
e) making budgetary estimates;
f) negotiating with suppliers, customers and other organisations;
g) planning and controlling the use of human resources and hiring workers;
h) managing daily operations;
i) advising government bodies about measures to improve health and welfare services and facilities;
j) performing related tasks; and
k) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1613)

1613-01	Aged Care Services Manager
1613-02	Aged Care Home Director
1613-03	Community Aged Care Coordinator

UNIT GROUP 1614 SOCIAL WELFARE MANAGERS

Social Welfare Managers plan, control and coordinate activities concerning social and community service programmes and assist in planning and implementing local welfare programmes.

Tasks include:

a) providing direction and management for all services and facilities of the organisation or welfare centre;
b) developing and implementing objectives and policies for various welfare programmes;
c) managing funds and the budget;
d) negotiating service contract coverage and making written agreements with the programme providers;
e) maintaining liaison with local welfare and social agencies;
f) monitoring and evaluating the effectiveness of service delivery methods and procedures;
g) performing related tasks; and
h) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1614)

1614-01	Social Work Manager
1614-02	Social Work Operation Manager
1614-03	Community Centre Manager
1614-04	Welfare Centre Manager

UNIT GROUP 1615 EDUCATION MANAGERS

Education Managers plan, control and coordinate and evaluate the educational and administrative aspects in primary and secondary schools, colleges and faculties and departments in universities and other educational institutions.

Tasks include:

a) determining educational programmes based on frameworks established by education authorities and governing bodies;
b) evaluating the work of teachers and lecturers by visiting classrooms, observing teaching methods, reviewing instructional objectives and examining learning materials;
c) overseeing educational research aimed at providing new directions for the education system;
d) representing the organisation on committees to identify present and future needs in the education system, and planning, developing and modifying facilities and programmes;
e) managing the evaluation of new approaches and development of new courses;
f) organising and conducting workshops and conferences to train teachers in new programmes and methods;
g) applying for and managing funding for new educational programmes;
h) managing processes related to school reviews, teacher assessment and education planning in primary and secondary schools;
i) preparing and overseeing the preparation of reports and information papers;
j) managing the provision of education in rural or remote areas, or within specific institutions;
k) performing related tasks; and
l) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1615)

1615-01	Education Manager
1615-02	Chancellor
1615-03	Principal
1615-04	Headteacher

UNIT GROUP 1616 FINANCIAL AND INSURANCE SERVICES BRANCH MANAGERS

Financial and Insurance Services Branch Managers plan, control and coordinate the branches of institutions that provide financial and insurance services such as banks, credit unions and insurance companies for one or more of their branches or department.

Tasks include:

a) planning, directing and coordinating the activities of workers in branches, offices or departments such as the establishment of bank branches, brokerage firms, risk and insurance departments, or credit departments;
b) overseeing the flow of cash and financial instruments;
c) networking within communities to find and attract new business;
d) approving or rejecting, or coordinating approval and rejection of credit and commercial, real estate and personal loans;
e) preparing financial and regulatory reports required by the law, regulations and boards of directors;
f) establishing procedures for custody and control of assets, records, loan, collateral and securities in order to ensure safekeeping;
g) managing and formulating policies of financial institutions such as banks, trust companies, savings and loan associations, insurance companies and related financial institutions;
h) examining, evaluating and processing loan applications;
i) preparing operational evaluation in risk report for management analysis;
j) evaluating financial reporting systems, accounting and collection procedures and investment activities and making recommendation for change to procedures, operating systems, budgets and other financial control functions;

k) submitting delinquent accounts to lawyers or external agencies for collection;
l) performing related tasks; and
m) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1616)

1616-01	Financial and Insurance Branch Manager
1616-02	Financial Branch Manager
1616-03	Insurance Branch Manager
1616-04	Bank Manager

UNIT GROUP 1617 LEGAL MANAGERS

Legal Managers plan, control and coordinate the operations of establishments concerning legal terminology, procedures and documents.

Tasks include:
a) planning, analysing and advising on the compliance of the company's business operations with relevant statutory and regulatory requirements and the company's rights;
b) managing external legal support, if required;
c) keeping abreast of legal developments affecting the company, its clients and the industry and synthesising the information to incorporate it into the company's transactional practices;
d) educating company executives about legal and risk management issues;
e) representing the company and liaising directly with clients and negotiating teams;
f) formulating, reviewing and negotiating a broad range of contracts;
g) strategising with company executives prior to client negotiations;
h) developing and understanding risk mitigation strategies for contractual risks;
i) developing internal guidelines and knowledge on various legal and business issues;
j) developing subject matter expertise in areas that benefit the legal group and/or the business (e.g., corporation law, competition law, employment law, data privacy and service line expertise);
k) supporting, promoting and implementing initiatives as part of the legal team;
l) planning and implementing policies;
m) making budgetary estimates;
n) performing related tasks; and
o) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1617)

1617-01	Legal and Risk Management Manager
1617-02	Legal Manager

UNIT GROUP 1618 PROPERTY MANAGERS

Property Managers handle fees charged on real estate and raise the investment value of real estate by managing the real estate as well as oversee the performance of income-producing commercial or residential properties to ensure that real estate investments achieve their expected revenues.

Task Include:
a) handling the financial operations of the property, ensuring that rent is collected and that mortgages, taxes, insurance premiums, salaries and maintenance bills are paid on time;
b) supervising the preparation of financial statements and periodic reports to the owners on the status of the property, occupancy rates, expiration dates of leases and other matters;
c) negotiating contracts for caretaking, security, groundskeeping, rubbish disposal, and other services;
d) monitoring the performance of contractors and investigating and resolving complaints from residents and tenants when services are not satisfactory;
e) understanding and complying with relevant legislation, ensuring that renting and advertising practices are not discriminatory, and that the property itself complies with all local, state and federal regulations and building code;
f) making budgetary estimates;
g) planning and controlling the use of resources and hiring of workers;
h) performing related tasks; and

i) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1618)

1618-01	Property Maintenance Manager
1618-02	Property Manager
1618-03	Real Estate Manager

UNIT GROUP 1619 PROFESSIONAL SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED

This unit group covers Professional Services Managers Not Elsewhere Classified in Minor Group 161: Professional Services Managers.

Tasks include:
a) planning and implementing policies;
b) making budgetary estimates;
c) negotiating with suppliers, customers and other organisations;
d) planning and controlling the use of resources and hiring of workers;
e) managing daily operations;
f) performing related tasks; and
g) managing, planning, scheduling and monitoring the tasks of other workers.

MINOR GROUP 162 OTHER SERVICES MANAGERS

Other Services Managers plan, direct and coordinate the operations of establishments that provide sports and recreational, personal care, security and cultural services.

Occupations in this minor group are classified into the following unit groups:

1621 SPORTS AND RECREATION CENTRE MANAGERS
1622 PERSONAL CARE, CLEANING AND RELATED SERVICES MANAGERS
1623 SECURITY MANAGERS
1624 CULTURAL CENTRE, MUSEUM AND LIBRARY MANAGERS
1629 OTHER SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 1621 SPORTS AND RECREATION CENTRE MANAGERS

Sport and Recreation Centre Managers plan, direct and coordinate the operations of establishments that provide sports and recreational, travelling and similar services.

Tasks include:
a) planning, directing and coordinating activities concerning operations and recreational and sports activities;
b) planning and organising sports and fitness programmes;
c) ensuring that equipment is kept clean and in good condition;
d) ensuring the efficient use of resources and the fulfillment of the schedules;
e) planning and directing daily operations;
f) controlling expenditure;
g) establishing and directing operational and administrative procedures;
h) overseeing the application of work safety and related procedures;
i) overseeing the selection, training and performance of staff;
j) representing the department in its dealings with other divisions of the enterprise or with external agencies;
k) performing related tasks; and
l) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1621)

1621-01	Sports Activity Manager
1621-02	Recreation Manager
1621-03	Travel Agency Manager
1621-04	Park Manager

UNIT GROUP 1622 PERSONAL CARE, CLEANING AND RELATED SERVICES MANAGERS

Personal Care, Cleaning and Related Services Managers plan, direct and coordinate the operations of establishments that provide personal care, cleaning, housekeeping, sanitation and sewerage or similar services.

Tasks include:

a) planning, directing and coordinating activities concerning personal care, cleaning, sanitation, sewerage and services and related operations;
b) ensuring the efficient use of resources and the fulfillment of the schedules;
c) planning and directing daily operations;
d) controlling expenditure;
e) establishing and directing operational and administrative procedures;
f) overseeing the application of related work safety procedures;
g) overseeing the selection, training and performance of staff;
h) representing the department in its dealings with other divisions of the enterprise or with external agencies;
i) planning and implementing policies;
j) making budgetary estimates;
k) negotiating with suppliers, customers and other organisations;
l) planning and controlling the use of resources and hiring of workers;
m) reporting to owners, if necessary;
n) performing related tasks; and
o) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1622)

1622-01	Personal Care Services Manager
1622-02	Cleaning Manager
1622-03	Sanitation Manager
1622-04	Garbage Disposal System Manager

UNIT GROUP 1623 SECURITY MANAGERS

Security Managers plan, direct and coordinate the operations of the establishment concerning security.

Tasks include:

a) planning, formulating and enforcing security policies and regulations;
b) overseeing the entire security surveillance;
c) managing all in-house security personnel;
d) reviewing any procedures or instructions that involve security to ensure all staff members are fully trained to achieve maximum security;
e) enforcing strict discipline and carrying out investigation into any disciplinary matter among the staff;
f) resolving safety and security issues promptly, effectively and independently;
g) supporting, promoting and implementing initiatives as part of the legal team;
h) negotiating with suppliers, customers and other organisations;
i) planning and controlling the use of resources and hiring of workers;
j) reporting to owners, if necessary;
k) performing related tasks; and
l) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 1623)

1623-01	Security Manager
1623-02	Security Operation Manager
1623-03	Assistant Security Manager

UNIT GROUP 1624 CULTURAL CENTRE, MUSEUM AND LIBRARY MANAGERS

Cultural Centre, Museum and Library Managers plan, direct and coordinate the operations of establishments concerning culture, museum and library.

Tasks include:

a) planning and organising a wide range of entertainment and cultural activities;
b) overseeing the objects or documentation collected by the museum and conducting research on the collection;
c) coordinating library operation;
d) ensuring the efficient use of resources and the fulfillment of the schedules;
e) planning and directing daily operations;
f) controlling expenditure;
g) establishing and directing operational and administrative procedures;
h) overseeing the application of work safety and related procedures;
i) overseeing the selection, training and performance of staff;
j) representing the department in its dealings with other divisions of the enterprise or with external agencies;
k) performing related tasks; and
l) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: **(refer to index; unit group 1624)**

1624-01	Library Manager
1624-02	Museum Manager
1624-03	Archives Manager
1624-04	Cultural Manager

UNIT GROUP 1629 OTHER SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED

This unit group covers Other Services Managers Not Elsewhere Classified in Minor Group 162: Other Services Managers.

Tasks include:

a) planning and implementing policies;
b) making budgetary estimates;
c) negotiating with suppliers, customers and other organisations;
d) planning and controlling the use of human resources and hiring of workers;
e) managing daily operations;
f) performing related tasks; and
g) managing, planning, scheduling and monitoring the tasks of other workers.

MAJOR GROUP 2
PROFESSIONALS

PROFFESIONALS

2

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

21 SCIENCE AND ENGINEERING PROFESSIONALS

211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS

2111 PHYSICISTS AND ASTRONOMERS
2112 METEOROLOGISTS AND SEISMOLOGISTS
2113 CHEMISTS
2114 GEOLOGISTS AND GEOPHYSICISTS

212 MATHEMATICIANS, ACTUARIES AND STATISTICIANS

2121 MATHEMATICIANS, ACTUARIES AND STATISTICIANS

213 LIFE SCIENCE PROFESSIONALS

2131 BIOLOGISTS, BOTANISTS, ZOOLOGISTS AND RELATED PROFESSIONALS
2132 FARMING, FORESTRY, PLANTATION AND FISHERIES ADVISERS
2133 ENVIRONMENTAL PROTECTION PROFESSIONALS
2134 PHARMACOLOGISTS, PATHOLOGISTS AND RELATED PROFESSIONALS

214 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY)

2141 INDUSTRIAL AND PRODUCTION ENGINEERS
2142 CIVIL ENGINEERS
2143 ENVIRONMENTAL ENGINEERS
2144 MECHANICAL ENGINEERS
2145 CHEMICAL ENGINEERS
2146 MINING ENGINEERS, METALLURGISTS AND RELATED PROFESSIONALS
2149 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY) NOT ELSEWHERE CLASSIFIED

215 ELECTROTECHNOLOGY ENGINEERS

2151 ELECTRICAL ENGINEERS
2152 ELECTRONIC ENGINEERS
2153 TELECOMMUNICATIONS ENGINEERS

216 ARCHITECTS, PLANNERS, SURVEYORS AND DESIGNERS

2161 BUILDING ARCHITECTS
2162 LANDSCAPE ARCHITECTS
2163 PRODUCT AND GARMENT DESIGNERS
2164 TOWN AND TRAFFIC PLANNERS
2165 CARTOGRAPHERS AND SURVEYORS
2166 GRAPHIC AND MULTIMEDIA DESIGNERS

217 SHIP, AIRCRAFT AND TRAIN/ LOCOMOTIVE CONTROLLERS

2171 SHIP ENGINEERS
2172 SHIP DECK OFFICERS AND PILOTS
2173 AIRCRAFT PILOTS AND RELATED PROFESSIONALS
2174 AIR TRAFFIC CONTROLLERS
2175 TRAIN/ LOCOMOTIVE CONTROLLERS
2179 TRANSPORT CONTROLLERS NOT ELSEWHERE CLASSIFIED

218 MINING, MANUFACTURING AND CONSTRUCTION PROFESSIONALS

2181 MINING PROFESSIONALS
2182 MANUFACTURING PROFESSIONALS
2183 CONSTRUCTION PROFESSIONALS

22 HEALTH PROFESSIONALS

221 MEDICAL DOCTORS

2211 GENERALIST MEDICAL PRACTITIONERS
2212 SPECIALIST MEDICAL PRACTITIONERS

222 NURSING AND MIDWIFERY PROFESSIONALS

2221 NURSING PROFESSIONALS
2222 MIDWIFERY PROFESSIONALS

223 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS

2231 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS

224 PARAMEDICAL PRACTITIONERS

2241 PARAMEDICAL PRACTITIONERS

225 VETERINARIANS

2251 VETERINARIANS

226 OTHER HEALTH PROFESSIONALS

2261 DENTISTS
2262 PHARMACISTS
2263 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND HYGIENE PROFESSIONALS
2264 PHYSIOTHERAPISTS
2265 DIETICIANS AND NUTRITIONISTS
2266 AUDIOLOGISTS AND SPEECH THERAPISTS
2267 OPTOMETRISTS AND OPHTHALMIC OPTICIANS
2268 OCCUPATIONAL THERAPISTS
2269 HEALTH PROFESSIONALS NOT ELSEWHERE CLASSIFIED

23 TEACHING PROFESSIONALS

231 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

2311 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

232 VOCATIONAL EDUCATION TEACHERS

2321 VOCATIONAL EDUCATION TEACHERS

233 SECONDARY EDUCATION TEACHERS

2331 SECONDARY EDUCATION TEACHERS

234 PRIMARY SCHOOL AND EARLY CHILDHOOD TEACHERS

2341 PRIMARY SCHOOL TEACHERS
2342 EARLY CHILDHOOD EDUCATORS

235 MUSIC, ARTS AND PERFORMING ARTS TEACHERS

2351 MUSIC TEACHERS
2352 ARTS TEACHERS
2353 PERFORMING ARTS TEACHERS

236 LANGUAGE TEACHERS

2361 LANGUAGE TEACHERS

237 RELIGIOUS TEACHERS

2371 RELIGIOUS TEACHERS

238 TECHNOLOGY SKILLS AND TECHNICAL TRAINERS

2381 VOCATIONAL TRAINING OFFICERS

239 OTHER TEACHING PROFESSIONALS

2391 EDUCATION METHOD SPECIALISTS
2392 SPECIAL NEEDS TEACHERS
2393 INFORMATION TECHNOLOGY TRAINERS
2399 TEACHING PROFESSIONALS NOT ELSEWHERE CLASSIFIED

24 BUSINESS AND ADMINISTRATION PROFESSIONALS

241 FINANCE PROFESSIONALS

2411 ACCOUNTANTS AND AUDITORS
2412 FINANCIAL AND INVESTMENT ADVISERS
2413 FINANCIAL ANALYSTS

242 ADMINISTRATION PROFESSIONALS

2421 MANAGEMENT AND ORGANISATION ANALYSTS
2422 POLICY ADMINISTRATION PROFESSIONALS
2423 PERSONNEL AND CAREER PROFESSIONALS
2424 TRAINING AND STAFF DEVELOPMENT PROFESSIONALS
2425 ADMINISTRATIVE PROFESSIONALS
2426 RESEARCH AND DEVELOPMENT PROFESSIONALS

243 SALES, MARKETING AND PUBLIC RELATIONS PROFESSIONALS

2431 ADVERTISING AND MARKETING PROFESSIONALS
2432 PUBLIC RELATIONS PROFESSIONALS
2433 TECHNICAL AND MEDICAL SALES PROFESSIONALS (EXCLUDING ICT)
2434 INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT) SALES PROFESSIONALS

25 INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS

251 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS

2511 COMPUTER SYSTEMS ANALYSTS
2512 SOFTWARE DEVELOPERS
2513 WEB AND MULTIMEDIA DEVELOPERS
2514 APPLICATION PROGRAMMERS
2519 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS NOT ELSEWHERE CLASSIFIED

252 DATABASE AND NETWORK PROFESSIONALS

2521 DATABASE DESIGNERS AND ADMINISTRATORS
2522 INFORMATION TECHNOLOGY SYSTEM ADMINISTRATORS
2523 COMPUTER NETWORK PROFESSIONALS
2524 DATA PROFESSIONALS

253 INFORMATION TECHNOLOGY SECURITY PROFESSIONALS

2531 CYBER SECURITY PROFESSIONALS

254 CREATIVE AND DIGITAL CONTENT PROFESSIONALS

2541 ANIMATION AND VISUAL EFFECTS PROFESSIONALS
2542 DIGITAL GAMES AND E-SPORTS PROFESSIONALS
2543 CREATIVE CONTENT DESIGNER PROFESSIONALS

26 LEGAL PROFESSIONALS

261 LEGAL PROFESSIONALS

2611 LAWYERS
2612 JUDGES
2619 LEGAL PROFESSIONALS NOT ELSEWHERE CLASSIFIED

27 HOSPITALITY AND RELATED SERVICES PROFESSIONALS

271 HOTEL AND RESTAURANT PROFESSIONALS

2711 HOTEL PROFESSIONALS
2712 RESTAURANT PROFESSIONALS

28 SOCIAL AND CULTURAL PROFESSIONALS

281 LIBRARIANS, ARCHIVISTS AND CURATORS

2811 ARCHIVISTS AND CURATORS
2812 LIBRARIANS AND RELATED INFORMATION PROFESSIONALS

282 SOCIAL AND RELIGIOUS PROFESSIONALS

2821 ECONOMISTS
2822 SOCIOLOGISTS, ANTHROPOLOGISTS AND RELATED PROFESSIONALS
2823 PHILOSOPHERS, HISTORIANS AND POLITICAL SCIENTISTS
2824 PSYCHOLOGISTS
2825 SOCIAL WORK AND COUNSELLING PROFESSIONALS
2826 RELIGIOUS PROFESSIONALS

283 AUTHORS, JOURNALISTS AND LINGUISTS

2831 AUTHORS AND RELATED WRITERS
2832 JOURNALISTS
2833 TRANSLATORS, INTERPRETERS AND OTHER LINGUISTS

284 CREATIVE AND PERFORMING ARTISTS

2841 VISUAL ARTISTS
2842 MUSICIANS, SINGERS AND COMPOSERS
2843 DANCERS AND CHOREOGRAPHERS
2844 FILM, STAGE AND RELATED DIRECTORS AND PRODUCERS

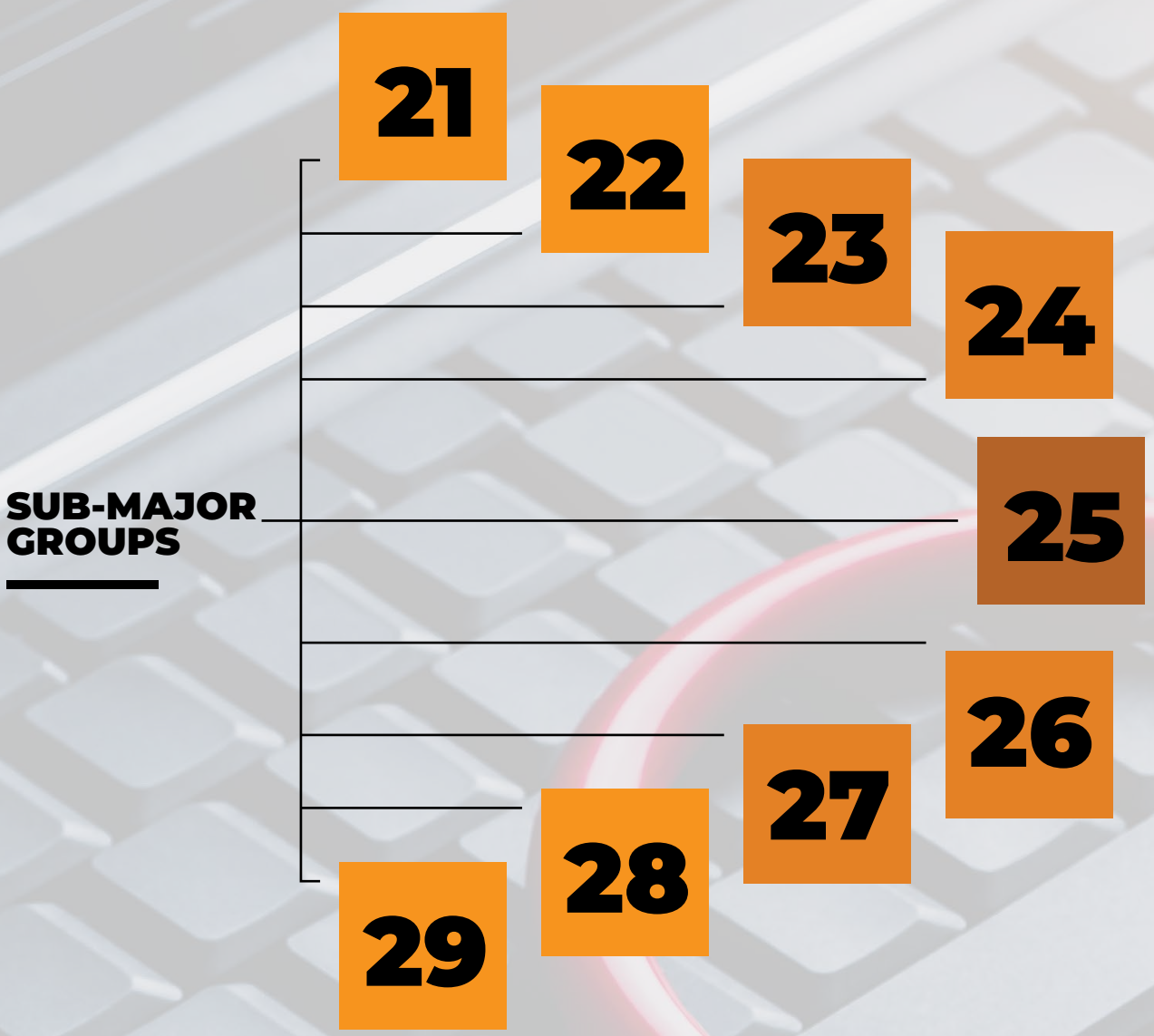
2845 ACTORS
2846 ANNOUNCERS ON RADIO, TELEVISION AND OTHER MEDIA
2847 CLOWNS, MAGICIANS, ACROBATS AND RELATED PROFESSIONALS
2848 ANIMAL KEEPERS AND TRAINERS
2849 CREATIVE AND PERFORMING ARTISTS NOT ELSEWHERE CLASSIFIED

29 REGULATORY GOVERNMENT PROFESSIONALS

291 REGULATORY BODY PROFESSIONALS

2911 PROFESSIONAL CUSTOMS AND BORDER INSPECTORS
2912 PROFESIONAL TAXATION AND EXCISE OFFICIALS
2913 PROFESSIONAL GOVERNMENT SOCIAL BENEFIT OFFICIALS
2914 PROFESSIONAL GOVERNMENT LICENSING OFFICIALS
2915 PROFESSIONAL POLICE OFFICIALS
2916 PROFESSIONAL CIVIL DEFENCE OFFICIALS
2919 REGULATORY GOVERNMENT PROFESSIONALS NOT ELSEWHERE CLASSIFIED

PROFESSIONALS



21 SCIENCE AND ENGINEERING PROFESSIONALS
22 HEALTH PROFESSIONALS
23 TEACHING PROFESSIONALS
24 BUSINESS AND ADMINISTRATION PROFESSIONALS
25 INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS
26 LEGAL PROFESSIONALS
27 HOSPITALITY AND RELATED SERVICES PROFESSIONALS
28 SOCIAL AND CULTURAL PROFESSIONALS
29 REGULATORY GOVERNMENT PROFESSIONALS

PROFESSIONALS

Description	**Increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these three activities.**
Skill Level	**Most occupations in this major group require skills at the fourth level.**

Occupations in this major group are classified into the following sub-major groups:

21 SCIENCE AND ENGINEERING PROFESSIONALS
22 HEALTH PROFESSIONALS
23 TEACHING PROFESSIONALS
24 BUSINESS AND ADMINISTRATION PROFESSIONALS
25 INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS
26 LEGAL PROFESSIONALS
27 HOSPITALITY AND RELATED SERVICES PROFESSIONALS
28 SOCIAL AND CULTURAL PROFESSIONALS
29 REGULATORY GOVERNMENT PROFESSIONALS

SUB-MAJOR 21 SCIENCE AND ENGINEERING PROFESSIONALS

Science and Engineering Professionals conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to fields such as physics, astronomy, meteorology, chemistry, geophysics, geology, mathematics, statistics, electrotechnology, architecture, engineering and technology.

Occupations in this sub-major group are classified into the following minor groups:

211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS
212 MATHEMATICIANS, ACTUARIES AND STATISTICIANS
213 LIFE SCIENCE PROFESSIONALS
214 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY)
215 ELECTROTECHNOLOGY ENGINEERS
216 ARCHITECTS, PLANNERS, SURVEYORS AND DESIGNERS
217 SHIP, AIRCRAFT AND TRAIN/ LOCOMOTIVE CONTROLLERS
218 MINING, MANUFACTURING AND CONSTRUCTION PROFESSIONALS

MINOR GROUP 211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS

Physicists, Chemists and Related Professionals conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to physics, astronomy, meteorology, chemistry, geology and geophysics.

Occupations in this minor group are classified into the following unit groups:

2111 PHYSICISTS AND ASTRONOMERS
2112 METEOROLOGISTS AND SEISMOLOGISTS
2113 CHEMISTS
2114 GEOLOGISTS AND GEOPHYSICISTS

UNIT GROUP 2111 PHYSICISTS AND ASTRONOMERS

Physicists and Astronomers conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to physics and astronomy in industrial, medical, military or other fields.

Tasks include:

a) conducting research and improving or developing concepts, theories and operational methods related to physics and astronomy;
b) conducting experiments, tests and analyses in fields such as mechanics, thermodynamics, optics, sonic, electricity, magnetism, electronics and nuclear physics, or astronomy;

c) conducting experiments, tests and analyses of the structure and properties of matter in solid state and its behaviour under temperature, pressure, stress and other conditions;
d) evaluating results of investigations and experiments and expressing conclusions, mainly using mathematical techniques and models;
e) developing or improving industrial, medical, military and other practical applications of the principles and techniques of physics or astronomy;
f) observing, analysing and interpreting celestial phenomena and developing methods and techniques to be used in fields such as navigation or space exploration;
g) preparing scientific papers and reports;
h) enhancing knowledge and coordinating work implementation; and
i) performing related tasks.

Examples of the occupations classified here: **(refer to index; unit group 2111)**

2111-01	Physicist
2111-02	Physicist, Theoretical
2111-03	Aerodynamicist
2111-04	Ballistician

UNIT GROUP 2112 METEOROLOGISTS AND SEISMOLOGISTS

Meteorologists and Seismologists conduct research, improve or develop concepts, theories and operational methods related to the composition, structure and dynamics of the atmosphere and prepare detailed or long-term weather forecasts used in aviation, shipping, agriculture and other areas and for the information of the general public.

Tasks include:
a) issuing weather forecasts, weather warnings, monitoring and issuing information about earthquakes and tsunamis so that property damage and deaths can be reduced;
b) analysing weather changes professionally and identifying impacts and measures to reduce the impacts, analysing meteorological charts and conducting research on weather phenomena to reduce the impact of bad weather;
c) providing advisory services efficiently and effectively to meet customer needs and expectations of interested parties (stakeholders) to increase socio-economic activities for the people and country;
d) investigating the direction and speed of air movements, pressures, temperatures, humidity and other phenomena such as cloud formation and precipitation, electrical disturbances or solar radiation;
e) analysing and interpreting satellite photographs, remote sensing and other atmospheric phenomena and preparing weather maps and forecasts used in aviation, shipping, agriculture and other areas and for the information of the general public;
f) preparing warnings relating to atmospheric phenomena such as storms or other hazards to life and property;
g) studying climatic data and using statistical methods to determine and interpret climatic trends and predict changes;
h) preparing scientific papers and reports;
i) preparing data, information and advisory services regarding tsunamis and seismology;
j) issuing early warning information about tremors and tsunamis;
k) supervising the work of technicians and meteorological observers; and
l) performing related tasks.

Examples of the occupations classified here: **(refer to index; unit group 2112)**

2112-01	Meteorological Officer Grade C41
2112-02	Meteorologist
2112-03	Climatologist
2112-04	Meteorologist-Climatology

UNIT GROUP 2113 CHEMISTS

Chemists conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to chemistry, mainly to test, develop and improve materials, and industrial products and processes.

Tasks include:

a) managing adjustment tasks and film examination;
b) conducting experiments, tests and analyses to investigate chemical composition and energy and chemical changes in various natural, artificial or synthetic substances, materials and products;
c) evaluating results of investigations and experiments and deriving conclusions;
d) managing and directing chemical laboratories including the verification, classification, investigation and certification of products, standards or process specifications;
e) developing practical applications of experimental and research findings;
f) developing or improving pharmaceutical and other industrial materials, products and processes;
g) developing and monitoring quality control procedures for manufacturers or users;
h) preparing laboratory reports and scientific papers;
i) enhancing understanding, coordinating and training laboratory technicians; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 2113)

2113-01	Film Lab Officer Grade C41
2113-02	Chemist
2113-03	Chemist, Rubber
2113-04	Chemist, Organic

UNIT GROUP 2114 GEOLOGISTS AND GEOPHYSICISTS

Geologists and Geophysicists conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploitation, water conservation, civil engineering, telecommunications and navigation, and assess development projects and the effects of waste disposal on the environment.

Tasks include:

a) conducting research and analysis of metals, metal source, clay, rocks, minerals and related main elements, coordinating quality control on the design for rock materials and minerals industries and training laboratory assistants;
b) carrying out geological research and investigation, mapping and geological engineering studies and water sources as well as providing consultancy on the use and development of land;
c) administering and conducting enforcement of the mines;
d) studying the composition and structure of the earth's crust, examining rocks, minerals, fossil remains, etc to determine processes affecting the development of the earth, tracing evolution and establishing the nature and chronology of geological formations;
e) interpreting research data and preparing geological reports, maps, charts and diagrams;
f) applying results of research to assess development potential of mineral, gas and oil deposits and underground water resources;
g) applying geological knowledge to problems encountered in civil engineering projects such as the construction of dams, bridges, tunnels and large buildings;
h) investigating and measuring seismic, gravitational, electrical, thermal and magnetic forces affecting the earth;
i) investigating and measuring optical and acoustic phenomena in the atmosphere;
j) charting the earth's magnetic field and applying this and other collected data for purposes of broadcast and navigation;
k) studying and measuring the physical properties of the sea and atmosphere and their inter-relationship such as the exchange of thermal energy;
l) locating and determining the nature and extent of oil, gas and mineral deposits and of ground water resources using seismological, gravimetric, magnetic, electrical or radiometric methods;
m) preparing laboratory reports and scientific papers;
n) enhancing knowledge and coordinating work performance; and
o) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 2114)

2114-01	Geophysicist
2114-02	Geologist
2114-03	Geologist, Engineering
2114-04	Geologist, Mining

MINOR GROUP 212 MATHEMATICIANS, ACTUARIES AND STATISTICIANS

Mathematicians, Actuaries and Statisticians conduct research, improve or develop mathematical, actuarial and statistical concepts, theories and operational models and techniques.

Occupations in this minor group are classified into the following unit groups:

2121 MATHEMATICIANS, ACTUARIES AND STATISTICIANS

UNIT GROUP 2121 MATHEMATICIANS, ACTUARIES AND STATISTICIANS

Mathematicians, Actuaries and Statisticians conduct research and improve or develop mathematical, actuarial and statistical concepts, theories, operational methods, and techniques, and advise on or engage in their practical application in such fields as engineering, business, social and other sciences.

Tasks include:

a) performing tasks related to demographics, statistics and research information, insurance matters, compensation and social security and trust law matters, provident fund and pension fund schemes;
b) managing the programmes and activities for collection, processing, analysis, reporting and dissemination of data in macroeconomic, trade, population, demography, labour, environment and other fields that are required from time to time for development planning and administration of the country;
c) advising on or applying mathematical principles, models and techniques to a wide range of tasks in the fields of engineering, natural, social or life sciences;
d) conducting logical analyses to resolve management problems, especially in terms of input-output effectiveness: formulating mathematical models of each problem, usually for programming and solution by computer;
e) planning and organising surveys and other statistical collections, and designing questionnaires;
f) evaluating, processing, analysing and interpreting statistical data and preparing them for publication;
g) preparing scientific papers and reports;
h) performing related tasks; and
i) enhancing knowledge and coordinating the work performance.

Examples of the occupations classified here: **(refer to index, unit group 2121)**

2121-01	Statistician Grade E41
2121-02	Mathematician
2121-03	Mathematician, Applied Mathematics
2121-04	Mathematician, Pure Mathematics

MINOR GROUP 213 LIFE SCIENCE PROFESSIONALS

Life Science Professionals apply knowledge gained from research into human, animal and plant life and their interactions with one another and the environment to develop new knowledge, improve agricultural and forestry production, and solve human health and environmental problems.

Occupations in this minor group are classified into the following unit groups:

2131 BIOLOGISTS, BOTANISTS, ZOOLOGISTS AND RELATED PROFESSIONALS
2132 FARMING, FORESTRY PLANTATION AND FISHERIES ADVISERS
2133 ENVIRONMENTAL PROTECTION PROFESSIONALS
2134 PHARMACOLOGISTS, PATHOLOGISTS AND RELATED PROFESSIONALS

UNIT GROUP 2131 BIOLOGISTS, BOTANISTS, ZOOLOGISTS AND RELATED PROFESSIONALS

Biologists, Botanists, Zoologists and Related Professionals conduct research, improve or develop concepts, theories and operational methods, and study living organisms and their interactions with one another and with the environment, and apply this knowledge to solve human health and environmental problems. They work in diverse fields such as botany, zoology, ecology, marine biology, genetics, immunology, pharmacology, toxicology, physiology, bacteriology and virology.

Tasks include:

a) conducting research, improving or developing concepts, theories and operational methods in their respective fields;
b) conducting field and laboratory experiments concerning all forms of life by identifying and classifying human, animal, insect or plant specimens, and studying their origins, development, chemical and physical forms, structures, compositions, and life and reproductive processes;
c) studying and conducting experiments concerning the structure, development and characteristics of micro-organisms such as bacteria or viruses;
d) studying all forms of plant/animal life and developing practical applications in fields such as agriculture and medicine;
e) studying and conducting experiments concerning the structure and functions of living cells and the influence of physical and chemical factors upon normal and abnormal cells;
f) studying the inter-relationships of animal and plant life and the environmental factors involved and offering professional advice in related disciplines;
g) developing industrial, medical and other applications of knowledge in their respective fields;
h) preparing laboratory reports and scientific papers;
i) enforcing the law and carrying out control over, research on and compilation of wildlife;
j) enhancing knowledge, coordinating and training laboratory technicians; and
k) performing related tasks.

Examples of the occupations classified here: (refer to index, unit group 2131)

2131-01	Wildlife Officer Grade G41
2131-02	Immunologist
2131-03	Microbiologist
2131-04	Serologist

UNIT GROUP 2132 FARMING, FORESTRY, PLANTATION AND FISHERIES ADVISERS

Farming, Forestry, Plantation and Fisheries Advisers study, provide assistance and advice on farm, forestry and fisheries management, including cultivation, fertilisation, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They develop techniques for increasing productivity, and study and develop plans and policies for land and fisheries management.

Tasks include:

a) planning, coordinating and carrying out all activities and programmes encompassing aspects of research, development, education, management and protection of fisheries resources to develop the country's fisheries industry; offering technical and engineering expertise for such purposes as vessel building and maintenance;
b) planning, organising and controlling the forestry activities in line with the regulations and policies of the government;
c) keeping abreast of the progress of methods and techniques of farming, forestry and fisheries;
d) offering advice on ways of raising quality of output, increasing yield and measures to increase efficiency of operations and to conserve natural assets and the environment;
e) visiting farms and advising on measures to deal with problems such as soil erosion or pest infestation;
f) collecting data and estimating quantities and costs of materials and labour required for projects;
g) organising demonstrations, giving lectures, writing and distributing materials to promote adoption of improved practices and techniques;
h) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
i) responsible for coordinating all activities related to the park such as education, development, enforcement, ecotourism, maintenance and etc;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2132)

2132-01	Fisheries Officer Grade G41
2132-02	Conservator of Forests Grade G41
2132-03	Agricultural Officer Grade G41
2132-04	Land Planning Officer Grade G41

UNIT GROUP 2133 ENVIRONMENTAL PROTECTION PROFESSIONALS

Environmental Protection Professionals study and assess the effects of human activity on the environment such as air, water and noise pollution, soil contamination, climate change, toxic waste and depletion and degradation of natural resources. They develop plans and solutions to protect, conserve, preserve, minimise and prevent further damage to the environment.

Tasks include:

a) undertaking research in laboratories and in the field to increase scientific knowledge of living organisms; to discover new information; to test hypotheses; to solve problems in areas such as the environment, agriculture and health; and to develop new products, processes and techniques for pharmaceutical, agricultural and environmental use;
b) gathering human, animal, insect and plant data and specimens, and studying their origins, development, chemical and physical forms, structures, compositions, and life and reproductive processes;
c) examining living organisms using a variety of specialised equipment, instruments, technologies and techniques such as electron microscopes, telemetry, global positioning systems, biotechnology, satellite imaging, genetic engineering, digital imaging analysis, polymerase chain reaction and computer modelling;
d) identifying, classifying, recording and monitoring living organisms and maintaining databases;
e) writing scientific papers and reports detailing research and any new findings which are then made available to the scientific community in scientific journals or at conferences for scrutiny and further debate;
f) designing and carrying out environmental impact assessments to identify changes caused by natural or human factors;
g) providing advice to the government, organisations and businesses in areas such as conservation, management of natural resources, the effects of climate change and pollution; and
h) enforcing the Environmental Quality Act 1974 and the regulations thereunder and the Exclusive Economic Zone Act 1984 and the regulations thereunder; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2133)

2133-01	Environmental Control Officer Grade C41
2133-02	Agronomist
2133-03	Crop Research Scientist
2133-04	Agricultural Scientist

UNIT GROUP 2134 PHARMACOLOGISTS, PATHOLOGISTS AND RELATED PROFESSIONALS

Pharmacologists, Pathologists and Related Professionals conduct research, improve or develop concepts, theories and operational methods, and apply scientific knowledge relating to anatomy, biochemistry, biophysics, physiology, pathology or pharmacology in such fields as medicine, agriculture or industry.

Tasks include:

a) studying and conducting concerning the forms, structures and other anatomical characteristics of living organisms;
b) studying and conducting experiments concerning the chemical compositions and processes of living organisms;
c) studying and conducting experiments concerning the life processes and functions of human, animal or plant organs, tissues, cells, glands and systems under normal and abnormal or exceptional conditions;
d) studying and conducting experiments concerning the structures, development and characteristics of micro-organisms such as bacteria or viruses;

e) studying and conducting experiments concerning the nature, causes and development of human, animal or plant diseases and disorders;
f) studying and conducting experiments concerning the effects of drugs and other substances on the tissues, organs and physiological processes of human beings and animals, and improving existing or developing new drugs;
g) developing industrial, medical and other applications of knowledge in their respective fields;
h) preparing laboratory reports and scientific papers;
i) enhancing knowledge, coordinating and training laboratory technicians; and
j) performing related tasks.

Examples of the occupations classified here: **(refer to index, unit group 2134)**

2134-01	Anatomist
2134-02	Biochemist
2134-03	Biochemist, Enzymes
2134-04	Biochemist, Clinical

MINOR GROUP 214 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY)

Engineering Professional (Excluding Electrotechnology) design, plan and organise the structure of testing, construction, installation and maintenance of machines and their components, and plant and production systems, and plan production schedules and work procedures to ensure engineering projects are undertaken safely, efficiently and in a cost effective manner.

Occupations in this minor group are classified into the following unit groups:

2141 INDUSTRIAL AND PRODUCTION ENGINEERS
2142 CIVIL ENGINEERS
2143 ENVIRONMENTAL ENGINEERS
2144 MECHANICAL ENGINEERS
2145 CHEMICAL ENGINEERS
2146 MINING ENGINEERS, METALLURGISTS AND RELATED PROFESSIONALS
2149 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY) NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2141 INDUSTRIAL AND PRODUCTION ENGINEERS

Industrial and Production Engineers plan, conduct research, design and oversee the construction, operation and maintenance process and installation of plants. They establish programmes for the coordination of manufacturing activities and assess the cost effectiveness and safety.

Tasks include:
a) establishing standards and policies for installation, modification, quality control, testing, inspection and maintenance according to engineering principles and safety regulations;
b) consulting with management and supervisory personnel and advising on planning and production methods;
c) developing sophisticated factory automation and mechanisation projects and recommending long-term automation strategies;
d) advising on methods to promote efficient, safe and economic utilisation of personnel, materials and equipment;
e) making recommendations regarding methods of work and sequence of operations;
f) making recommendations and supervising from the aspects of time and organisation of work;
g) advising on the most efficient layout for the plant or establishment;
h) identifying potential hazards and introducing safety procedures and devices;
i) preparing and monitoring cost estimates and bills of quantities for architectural and construction projects;
j) studying and advising on technological aspects of the manufacturing process;
k) investigating complaints and accidents in the workplace and reporting and monitoring industrial health;
l) implementing building construction surveying and surveying work prior to construction;
m) designing components of optical instruments such as lenses, microscopes, telescopes, lasers, optical disc systems and other equipment that utilise the properties of light;
n) performing related tasks; and
o) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2141)

2141-01	Automation Engineer
2141-02	Robotics Engineer
2141-03	Industrial Engineer
2141-04	Production Engineer

UNIT GROUP 2142 CIVIL ENGINEERS

Civil Engineers plan, conduct research, advise on, design and direct construction activity; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.

Tasks include:

a) carrying out maintenance and upgrading of all buildings and public facilities and supervising engineering related issues;
b) advising on and designing structures such as bridges, dams, docks, roads, airports, railways, pipelines, waste disposal and flood control systems, and industrial and other large buildings;
c) determining and specifying construction methods, materials and quality standards, and directing construction work;
d) establishing control systems to ensure efficient functioning of structures as well as safety and environmental protection;
e) organising and directing site labour and the delivery of construction materials, plant and equipment needed for construction projects;
f) administering contracts and verifying and certifying the satisfactory completion of construction;
g) studying and advising on technological aspects of particular materials/processes or systems related to civil engineering work;
h) quantity surveying of plans for bid, contract, contract assessment and other related tasks;
i) maintaining technical liaison and consultancy with other relevant specialists;
j) supervising the testing and commissioning of completed work; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2142)

2142-01	Executive Officer (Engineering) Grade 41
2142-02	Engineer Grade J41
2142-03	Executive Officer (Engineering) Grade L5
2142-04	Engineer

UNIT GROUP 2143 ENVIRONMENTAL ENGINEERS

Environmental Engineers conduct research, advise on, design and direct implementation of solutions to prevent, control or remedy negative impacts of human activity on the environment utilising a variety of engineering disciplines. They conduct environmental assessments of construction and civil engineering projects and apply engineering principles to pollution control, recycling and waste disposal.

Tasks include:

a) studying the environmental impact of proposed construction projects;
b) conducting hazardous waste management studies to evaluate the hazards, advise on treatment and prevention, and develop regulations to prevent mishaps;
c) designing municipal water supply and industrial wastewater treatment systems as well as being aware of local and international environmental issues such as the effects of acid rain, ozone depletion, water pollution and air pollution from automobile exhausts and industrial sources;
d) studying the effects of such factors as terrain, altitude, climatic conditions, sources of nutrition and predators on animal and plant life;
e) investigating the structure of communities of organisms and predicting the effects of disturbances by humans or environmental changes;
f) managing forest, recreational and natural resources to maximise their long-term commercial benefit for the community;

g) researching into field crops and grasses and developing new or improved cultivation methods;
h) researching into horticultural crops and developing new or improved cultivation methods;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance

Examples of the occupations classified here: **(refer to index, unit group 2143)**

2143-01	Environmental Engineer
2143-02	Sewerage and Sanitation Engineer
2143-03	Air Pollution Control Engineer
2143-04	Environmental Remediation Specialist

UNIT GROUP 2144 MECHANICAL ENGINEERS

Mechanical Engineers conduct research and advise on design, and direct the production of machinery and equipment and industrial plant systems, and advise on and direct their functioning, maintenance and repairs, or study and advise on technological aspects of particular materials, products or processes.

Tasks include:
a) advising on and designing machinery and tools for manufacturing, mining, construction, agricultural work and other industrial purposes;
b) advising on and designing steam, internal combustion and other non-electric motors and engines used for propulsion of locomotives, land vehicles or aircraft, or for driving industrial or other machinery;
c) advising on and designing ship propulsion systems, power plants, heating and ventilation systems, steering gear, pumps and other mechanical equipment;
d) advising on and designing hulls and superstructures of ships and other vessels;
e) advising on and designing airframes, undercarriages and other equipment for aircraft;
f) advising on and designing land vehicle bodies, suspension systems, brakes and other components;
g) advising on and designing heating, ventilation and refrigeration systems and equipment;
h) advising on and designing mechanical plants and equipment for the release, control and utilisation of nuclear energy;
i) advising on and designing non-electrical parts or products such as word processors, computers, precision instruments, cameras and projectors;
j) establishing control standards and procedures to ensure efficient functioning and safety of machinery, tools, motors, engines and industrial plants, equipment or systems;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance..

Examples of the occupations classified here: **(refer to index, unit group 2144)**

2144-01	Mechanical Engineering Technologist
2144-02	Mechanical Engineer
2144-03	Machinery and Tools Industrial Engineer
2144-04	Lift Engineer

UNIT GROUP 2145 CHEMICAL ENGINEERS

Chemical Engineers conduct research and develop, design and advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicaments or synthetic materials, and direct maintenance and repair of industrial plants, or study and advise on technological aspects of particular materials, products or processes.

Tasks include:
a) conducting research, advising on, developing and designing commercial-scale chemical processes and equipment to refine crude oil and other liquids or gases, and to produce substances and items such as petroleum derivatives, explosives, food and drink products, medicament or synthetic materials;
b) specifying relevant aspects of the construction of chemical manufacturing plants;
c) specifying production methods, material and quality standards and ensuring that they conform to specifications;

d) establishing control standards and procedures to ensure safety, environmental protection and efficiency in manufacturing operations and processes;
e) locating and correcting malfunctions;
f) organising and advising on maintenance and repair of existing equipment;
g) studying and advising on technological aspects of particular materials, products or processes;
h) maintaining good relations and holding technical consultancy with other relevant specialists;
i) preparing analytical reports;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index, unit group 2145)**

2145-01	Chemical Engineering Technologist
2145-02	Chemical Process Technologist
2145-03	Chemical Engineer
2145-04	Chemical Process Engineer

UNIT GROUP 2146 MINING ENGINEERS, METALLURGISTS AND RELATED PROFESSIONALS

Mining Engineers, Metallurgists and Related Professionals conduct research, design and develop and maintain commercial-scale methods of extracting metals from their ores or minerals, water and oil or gas from the earth and of developing new alloys, ceramic and other materials, or study and advise on technological aspects of particular materials, products or processes.

Tasks include:
a) conducting research, advising on, designing and developing new or improved methods to deal with engineering aspects of mining and oil, gas or water extraction;
b) determining the most efficient methods of mining and extraction, types of machinery to be used, layout planning and directing construction of shafts and tunnels;
c) determining drilling sites and devising methods of controlling the flow of water, oil or gas from wells;
d) planning and directing storage, initial treatment and transport of water, oil or gas;
e) establishing safety standards and procedures and first aid facilities, especially underground;
f) conducting research, developing methods of extracting metals from their ores and advising on their application;
g) investigating properties of metals and alloys, developing new alloys and advising on and supervising technical aspects of metal and alloy manufacture and processing;
h) studying and advising on technological aspects of particular materials or processes;
i) maintaining technical liaison and consultancy with other relevant specialists, in particular with geologists and geophysicists;
j) preparing operating expense budget to evaluate the economic feasibility of production processes;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index, unit group 2146)**

2146-01	Mining Engineer
2146-02	Metal Mining Engineer
2146-03	Mining Coal Engineer
2146-04	Non-Metal Mining Engineer

UNIT GROUP 2149 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY) NOT ELSEWHERE CLASSIFIED

This unit group covers Engineering Professionals (Excluding Electrotechnology) Not Elsewhere Classified in Minor Group 214: Engineering Professionals (Excluding Electrotechnology). For example, this group include Explosive Ordnance Engineer, Marine Salvage Engineer, Nuclear Engineer and Nuclear Power Engineer.

Tasks include:

a) designing, testing and coordinating the manufacture of explosive ordnance to meet military procurement specifications;
b) designing and overseeing construction and operation of nuclear reactors and power plants and nuclear fuel reprocessing and reclamation systems;
c) designing and developing nuclear equipment such as reactor cores, radiation shielding and associated instrumentation and control mechanisms;
d) assessing damage and providing budget calculations for marine salvage operations;
e) studying and advising on engineering aspects of particular manufacturing processes;
f) identifying potential hazards and introducing safety procedures and devices;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2149)

2149-01	Explosive Ordnance Engineer
2149-02	Marine Salvage Engineer
2149-03	Nuclear Engineer
2149-04	Nuclear Power Engineer

MINOR GROUP 215 ELECTROTECHNOLOGY ENGINEERS

Electrotechnology Engineers conduct research and design, advise on, plan and direct the construction and operation of electronic, electrical and telecommunications systems, components, motors and equipment. They establish control systems to monitor the performance and safety of electrical and electronic assemblies.

Occupations in this minor group are classified into the following unit groups:

2151 ELECTRICAL ENGINEERS
2152 ELECTRONIC ENGINEERS
2153 TELECOMMUNICATIONS ENGINEERS

UNIT GROUP 2151 ELECTRICAL ENGINEERS

Electrical Engineers conduct research and advise on, design and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their maintenance and repair, or study and advise on technological aspects of electrical engineering materials, products and processes.

Tasks include:

a) planning and designing the manufacture and installation of electric power equipment and facilities;
b) determining the type and arrangement of circuits, transformers, circuit breakers, transmission lines and other equipment;
c) advising on and designing systems for electrical motors, electric traction devices and other equipment or domestic electrical appliances;
d) interpreting specifications, standards and regulations relating to electric power equipment and use;
e) organising and managing resources used in electrical components, machines, appliances and equipment;
f) establishing delivery and installation schedules for machines, switchgear, cables and fittings;
g) supervising the operation and maintenance of power stations, transmission and distribution systems and industrial plants;
h) establishing control standards and procedures to ensure efficient functioning and safety of electrical generating and distribution systems;
i) locating and correcting malfunctions;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2151)

2151-01	Electrical Engineering Technologist
2151-02	Electrical Engineer
2151-03	Electrical Systems Engineer
2151-04	Electrical Testing Engineer

UNIT GROUP 2152 ELECTRONIC ENGINEERS

Electronic Engineers conduct research on, design and direct the maintenance and repair of electronic systems. They study and advise on technological aspects of electronic engineering materials, products and processes.

Tasks include:

a) advising on and designing electronic devices, circuits and systems used for computers, communications and control systems and other industrial applications;
b) designing software especially embedded software to be used in such systems;
c) developing apparatus and procedures to test electronic components, circuits and systems;
d) supervising installation and certification of computer and telecommunications systems and ensuring proper control and protection methods;
e) establishing control standards and procedures to ensure efficient functioning and safety of electronic systems, motors and equipment;
f) locating and correcting malfunctions;
g) organising and directing maintenance and repair of existing electronic systems, motors and equipment;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2152)

2152-01	Electronics Engineering Technologist
2152-02	Electronics Engineer
2152-03	Railway Signal Engineer
2152-04	Computer Applications Engineer

UNIT GROUP 2153 TELECOMMUNICATIONS ENGINEERS

Telecommunications Engineers conduct research, design and direct the maintenance, repair of systems and telecommunications equipment. They study and advise on technological aspects of materials, products and processes in telecommunications engineering.

Tasks include:

a) advising on and designing electronic devices, circuits and systems used for computers, telecommunications and control systems and other industrial applications;
b) specifying production or installation methods, materials, quality and safety standards and directing production or installation work of telecommunications products and systems;
c) organising and directing maintenance and repair of existing telecommunications systems, motors and equipment;
d) researching and advising on telecommunications equipment;
e) planning and designing communications networks based on wired, fibre optic and wireless communication media;
f) designing and developing signal processing algorithms and implementing these through appropriate choice of hardware and software;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2153)

2153-01	Telecommunications Engineer
2153-02	Telecommunications Engineer, Aerospace
2153-03	Telecommunications Engineer, Radar
2153-04	Telecommunications Engineer, Signal Systems

MINOR GROUP 216 ARCHITECTS, PLANNERS, SURVEYORS AND DESIGNERS

Architects, Planners, Surveyors and Designers plan, advise on and improve or develop concepts, theories and operational methods, or apply existing knowledge of architecture, planning, surveying and design.

Occupations in this minor group are classified into the following unit groups:

2161 BUILDING ARCHITECTS
2162 LANDSCAPE ARCHITECTS
2163 PRODUCT AND GARMENT DESIGNERS

2164 TOWN AND TRAFFIC PLANNERS
2165 CARTOGRAPHERS AND SURVEYORS
2166 GRAPHIC AND MULTIMEDIA DESIGNERS

UNIT GROUP 2161 BUILDING ARCHITECTS

Building Architects plan, advise on and design recreational, institutional, residential, commercial and industrial buildings, and plan and monitor their construction, maintenance and rehabilitation.

Tasks include:

a) planning, receiving and reviewing the project brief, visiting the project site, preparing drawings, sketch drawings, detailed designs, working drawings and specifications;
b) developing new or improved architectural theories and methods;
c) consulting with clients and making recommendations regarding type, style, size and other aspects of construction;
d) designing buildings and preparing construction drawings and plans;
e) identifying and finding the best solutions for problems regarding function and quality of interior environments of buildings and making the necessary designs, drawings and plans;
f) inspecting construction work in progress to ensure compliance with plans, specifications and quality standards;
g) planning layout and coordinating development of urban areas;
h) planning and designing the development of land areas for projects such as parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites;
i) preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modelling, structures and vegetation;
j) supervising the testing and certification of completed works;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index, unit group 2161)**

2161-01	Architect Grade J41
2161-02	Architect
2161-03	Interior Architect
2161-04	Building Architect

UNIT GROUP 2162 LANDSCAPE ARCHITECTS

Landscape Architects plan and design the recreational, layout of towns and landscapes, and plan and monitor their construction, maintenance and rehabilitation.

Tasks include:

a) implementing development work design, maintenance, project oversight, designing development plans, public parks, landscapes and providing input to the development plan structures, guidelines and planning and projects carried out;
b) consulting with clients and making recommendations regarding type, style, size and other aspects of construction;
c) inspecting construction work in progress to ensure compliance with plans, specifications and quality standards;
d) planning and designing the development of land areas for projects such as parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites;
e) preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modelling, structures and vegetation;
f) supervising the testing and certification of completed works;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2162)

2162-01	Landscape Architect Grade J41
2162-02	Landscape Architect

UNIT GROUP 2163 PRODUCT AND GARMENT DESIGNERS

Product and Garment Designers design and develop products for manufacture and prepare designs and specifications of products for mass, batch and one-off production.

Tasks include:

a) formulating design concepts for clothing, textiles, industrial, commercial products and jewellery;
b) preparing sketches, diagrams, illustrations, plans, samples and models to obtain concept design;
c) negotiating the design with clients, the management, and sales and manufacturing staff;
d) selecting, specifying and recommending materials, production methods and finishes for production;
e) detailing and documenting the selected design for production;
f) preparing and determining prototypes and samples;
g) preparing patterns, programmes and tools, and the manufacturing process;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2163)

2163-01	Commercial Products Designer
2163-02	Industrial Products Designer
2163-03	Fashion Designer
2163-04	Jewellery Designer

UNIT GROUP 2164 TOWN AND TRAFFIC PLANNERS

Town and Traffic Planners develop and advise on and design of recreational, institutional, residential, layout of towns, landscapes and traffic systems, and plan and monitor their construction, maintenance and repair.

Tasks include:

a) planning, preparing, overseeing and coordinating development plan studies and development plans and preparing technical reports and advising on planning inclusive of layout plans;
b) compiling and analysing sites and community data on geographical aspects, ecology of area, landforms, soils, vegetation, site hydrology, visual characteristics and man-made structures to formulate land use and development recommendations for the preparation of environmental impact statements;
c) inspecting construction work in progress to ensure compliance with plans, specifications and quality standards;
d) planning layout and coordinating development of urban areas;
e) planning and designing the development of land areas for projects such as parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites;
f) planning and advising to facilitate routing, control of roads and traffic systems, and safety;
g) preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modelling, structures and vegetation;
h) supervising the testing and certification of completed works;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2164)

2164-01	Urban and Rural Planning Officer Grade J41
2164-02	Town Planner
2164-03	Urban and Rural Planner
2164-04	Traffic Engineer

UNIT GROUP 2165 CARTOGRAPHERS AND SURVEYORS

Cartographers and Surveyors apply surveying methods and techniques to determine the exact position of natural and constructed features and boundaries of land, seas, underground areas and celestial bodies, and prepare or revise digital, graphic and pictorial representations of maps and charts, applying scientific and mathematical principle.

Tasks include:

a) carrying out surveying, i.e. standard for control traverse survey, control survey, party wall survey, land acquisition survey, urban and rural area survey, classes one and two surveys for issuing land titles, sports court measurements and accuracy probe survey;
b) reviewing, surveying and describing the land surface for a variety of purposes, including map making, construction work or establishment of property boundaries;
c) surveying seas, rivers and river beds, delineating underwater surfaces, noting exact positions of various features and making charts and maps to be used specifically in determining navigable waters and channels;
d) analysing aerial and other photographs, satellite images and survey data to prepare and revise topographic maps and charts, utility maps and other thematic maps;
e) studying and advising on technical, aesthetic and economic aspects of map production;
f) supervising the preparation of plans, maps, charts and drawings to give pictorial representations and managing automated information systems;
g) undertaking research and development of reconnaissance survey and photogrammetry system, cadastral (land tenure) systems and land information systems;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2165)

2165-01	Geospatialist Grade J41
2165-02	Surveyor Grade J41
2165-03	Cartographer
2165-04	Cartographer, Marine

UNIT GROUP 2166 GRAPHIC AND MULTIMEDIA DESIGNERS

Graphic and Multimedia Designers design information content for visual and audio communication, publications and display using film, electronic, digital and other forms of visual and audio media. They create special effects, animation, or other visual images for use in computer games, movies, music videos, print media and advertisements.

Tasks include:

a) carrying out graphic design and multimedia work, exhibitions and publicity in visual form and display work related to art;
b) creating designs for presentation and production props;
c) coordinating, planning, preparing designs for publication materials trophies;
d) formulating design concepts;
e) preparing sketches, diagrams, illustrations, layouts and design concepts;
f) designing complex graphics and animation;
g) creating two- and three-dimensional images depicting objects in motion or illustrating a process, applying computer animation or modelling programme;
h) negotiating design solutions with clients, the management, sales and production staff;
i) detailing and documenting the selected design for production;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2166)

2166-01	Designer Grade B41
2166-02	eCommerce Web Designer
2166-03	Designer Grade B43
2166-04	Designer Grade B47

MINOR GROUP 217 SHIP, AIRCRAFT AND TRAIN/ LOCOMOTIVE CONTROLLERS

Ship, Aircraft and Train/ Locomotive Controllers plan and improve or develop concepts, theories and operational methods, or perform technical functions to ensure safety and efficient transport movement and operations, and develop electrical, electromechanical and computerised air control systems.

Occupations in this minor group are classified into the following unit groups:

2171 SHIP ENGINEERS
2172 SHIP DECK OFFICERS AND PILOTS
2173 AIRCRAFT PILOTS AND RELATED PROFESSIONALS
2174 AIR TRAFFIC CONTROLLERS
2175 TRAIN/ LOCOMOTIVE CONTROLLERS
2179 TRANSPORT CONTROLLERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2171 SHIP ENGINEERS

Ship Engineers control and participate in the operation, maintenance and repair of electrical and electronic equipment and machinery on board, or perform related supporting functions.

Tasks include:
a) controlling and participating in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board;
b) performing technical supervision of the installation, maintenance and repair of ship machinery and equipment to ensure compliance with specifications and regulations;
c) coordinating tests on equipment and diagnosing faults;
d) applying knowledge of principles and practices relating to ship machinery and equipment in order to identify and solve problems arising in the course of their work;
e) inspecting and conducting maintenance and emergency repairs to engines, machinery and auxiliary equipment;
f) watching over engine room, monitoring and noting performance of engines, machinery and auxiliary equipment;
g) maintaining records of operation of engineering department;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2171)

2171-01	Ship Engineer
2171-02	Marine Engineer
2171-03	Ship Construction Engineer
2171-04	Hovercraft Architect

UNIT GROUP 2172 SHIP DECK OFFICERS AND PILOTS

Ship Deck Officers and Pilots command and navigate ships and perform related functions in port.

Tasks include:
a) managing registration of ships, ship safety, safety of navigation, seafarers' and port affairs, maritime technical training, development projects as well as conducting studies and evaluation of international conventions and law of the sea;
b) commanding and navigating the ship, seagoing or inland waterway vessels by supervising the ship's course and speed according to passage plan and safety;
c) planning, supervising and coordinating deck and bridge watch on the vessel;
d) navigating vessels into and out of ports and through straits and other waters where special knowledge and skill are required;
e) ensuring safe and efficient loading and unloading of cargo and observance of safety regulations and procedures by crew and passengers;
f) performing technical supervision of maintenance and repair of ship to ensure compliance with specifications and regulations;
g) directing or arranging supply of ship stores and equipment, recruitment of crew and provision of other services (except food) for arriving vessels;
h) managing and maintaining inventory, records and documentation;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2172)

2172-01	Marine Officer Grade AL41
2172-02	Ship Captain
2172-03	Hovercraft Pilot
2172-04	Ship Pilot

UNIT GROUP 2173 AIRCRAFT PILOTS AND RELATED PROFESSIONALS

Aircraft Pilots and Related Professionals control the operation of mechanical, electrical and electronic equipment in order to navigate aircraft and perform pre-flight and in-flight tasks.

Tasks include:

a) giving in-flight instruction, supervising solo flights, accompanying students on flight training and demonstrating techniques for controlling aircraft;
b) applying knowledge of principles and practices of flying in order to identify and solve problems arising in the course of their work;
c) examining maintenance records and conducting inspections to ensure that aircraft are mechanically sound, maintenance has been performed and all equipment is operational;
d) signing necessary certificates and maintaining official records of flight;
e) obtaining pre-flight briefings and clearances and communicating with air traffic or flight control during flight;
f) flying public or private aircraft, planning, supervision, testing, modifying flight charts, taking aerial photography and managing pilot examinations;
g) issuing pilot licences, gathering information from researchers on aircraft accidents and damage and technical data of all aircraft;
h) carrying out aircraft inspection;
i) examining and approving the establishment of airlines, issuing certificates of approval for aircraft, conducting research on the breakdown of public aircraft and participating in the investigation of aircraft accidents and preparing reports;
j) operate a hot air balloon, responsible for making decisions regarding aviation, the safety of all passengers, crew and equipment, flight record and equipment maintenance;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index, unit group 2173)

2173-01	Pilot/ Pilot Examiner Grade AT41
2173-02	Aircraft Examiner Grade A41
2173-03	Pilot
2173-04	Flight Navigator

UNIT GROUP 2174 AIR TRAFFIC CONTROLLERS

Air Traffic Controllers direct aircraft movements in the air and on the ground using radio, radar and lighting systems, and provide information relevant to the operation of aircraft.

Tasks include:

a) directing aircraft approaching and leaving the airport and controlling their movement on the ground/ airport and directing taxiing, take-offs and landings;
b) directing and controlling aircraft movements in the air using radar or non-radar procedures and directing aircraft by radio;
c) checking flight plans, position reports, flight levels, estimated arrival times at reporting points or destinations and authorising changes of flight levels and altitudes;
d) informing flight crew and operations staff about weather conditions, operational facilities, flight plans and air traffic;
e) controlling the operation of airport lighting systems such as runway and approach lights and aerodrome beacons;
f) applying knowledge of principles and practices of air traffic control in order to identify and solve problems arising in the course of their work;

g) initiating and organising emergency, search and rescue services when aircraft are in distress;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2174)

2174-01	Air Traffic Control Officer Grade A41
2174-02	Air Traffic Controller
2174-03	Operation Centre Controller
2174-04	Air Cargo Officer

UNIT GROUP 2175 TRAIN/ LOCOMOTIVE CONTROLLERS

Train/ Locomotive Controllers direct train/ locomotive movements on the ground using radio, radar and lighting systems, and provide information relevant to the operation of the train/ locomotive.

Tasks include:
a) directing and controlling train/ locomotive movements;
b) applying knowledge of principles and practices of train/ locomotive traffic control in order to identify and solve problems arising in the course of their work;
c) initiating and organising emergency, search and rescue services when trains/ locomotives are in distress;
d) performing related tasks; and
e) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2175)

2175-01	Railway and Locomotive Operation Officer
2175-02	Railway and Locomotive Operation Controller
2175-03	Permanent-Way Inspector (Railways)

UNIT GROUP 2179 TRANSPORT CONTROLLERS NOT ELSEWHERE CLASSIFIED

This unit group covers Transport Controllers Not Elsewhere Classified in Minor Group 217: Ship, Aircraft and Train/ Locomotive Controllers.

Tasks include:
a) operate Unnamed Aircraft Systems (UAS) or drones, and ensure drones able to landing and take-offs safely;
b) inspecting drones before flying and monitor drone routes;
c) performing related tasks; and
d) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2179)

2179-01	Drone Pilot
2179-02	Unmanned Aerial Vehicle Pilot

MINOR GROUP 218 MINING, MANUFACTURING AND CONSTRUCTION PROFESSIONALS

Mining, Manufacturing and Construction Professionals conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge in such fields as mining, manufacturing and construction.

Occupations in this minor group are classified into the following unit groups::

2181 MINING PROFESSIONALS
2182 MANUFACTURING PROFESSIONALS
2183 CONSTRUCTION PROFESSIONALS

UNIT GROUP 2181 MINING PROFESSIONALS

Mining Professionals conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge concerning the mining activities such as extracting coal, ore, stone, clay and other solid minerals from the earth.

Tasks include:

a) conducting research, developing methods and coordinating activities concerning the extraction of minerals from mines and stone, or slate and clay from quarries;
b) ensuring the efficient use of resources and the fulfilment of production quotas;
c) studying and advising on technological aspects of particular materials or processes;
d) controlling expenditure;
e) establishing and supervising operational and administrative procedures;
f) overseeing the application of work safety and related procedures;
g) overseeing the selection, training and performance of staff;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2181)

2181-01	Mining Executive

UNIT GROUP 2182 MANUFACTURING PROFESSIONALS

Manufacturing Professionals conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge concerning the production of food, paper, sawmill, warehouse as well as quality assurance.

Tasks include:

a) studying and advising on technological aspects of particular materials or processes;
b) establishing and supervising operational and administrative procedures;
c) overseeing the application of work safety and related procedures;
d) overseeing the selection, training and performance of staff;
e) negotiating with suppliers, customers and other organisations;
f) representing the department in its dealings with other divisions of the enterprise or with external bodies;
g) ensuring all production processes fall within the manufacturing specifications and product characteristics adhere to the company's standard document;
h) implementing production plan through subordinates and ensuring that utilisation of manpower, machine and equipment is optimised;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2182)

2182-01	Manufacturing Executive
2182-02	Quality Assurance Executive
2182-03	Quality Assurance Analyst
2182-04	Quality Control Executive

UNIT GROUP 2183 CONSTRUCTION PROFESSIONALS

Construction Professionals conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge concerning construction projects.

Tasks include:

a) conducting research, developing methods and coordinating activities concerning the construction of buildings, dams, highways, pipelines and related construction projects;
b) studying construction procedures based on starting and completion times and staffing requirements for each phase of construction, based on knowledge of available tools and equipment and various building methods;
c) studying and advising on technological aspects of particular materials or processes;
d) establishing and supervising operational and administrative procedures;
e) overseeing the application of work safety and related procedures;
f) overseeing the selection, training and performance of staff;

g) representing the department in its dealings with other divisions of the organisation or with external bodies;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2183)

2183-01	Construction Executive
2183-02	Construction Project Executive
2183-03	Construction Site Executive
2183-04	Construction Contract Executive

SUB-MAJOR 22 HEALTH PROFESSIONALS

Health Professionals conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to fields such as medicine, nursing and midwifery, dentistry, pharmacy, traditional and complementary medicine, veterinary and other health professionals.

Occupations in this sub-major group are classified into the following minor groups:

221 MEDICAL DOCTORS
222 NURSING AND MIDWIFERY PROFESSIONALS
223 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS
224 PARAMEDICAL PRACTITIONERS
225 VETERINARIANS
226 OTHER HEALTH PROFESSIONALS

MINOR GROUP 221 MEDICAL DOCTORS

Medical Doctors study, diagnose, treat and prevent illnesses, infections, injuries and other physical and mental impairments in humans through the application of the principles and procedures of modern medicine. They plan, supervise and evaluate the implementation of health care and treatment, and conduct medical education and research activities.

Occupations in this minor group are classified into the following unit groups:

2211 GENERALIST MEDICAL PRACTITIONERS
2212 SPECIALIST MEDICAL PRACTITIONERS

UNIT GROUP 2211 GENERALIST MEDICAL PRACTITIONERS

Generalist Medical Practitioners diagnose, treat and prevent illnesses, infections, injuries and other physical and mental impairments and maintain general health in humans through application of the principles and procedures of modern medicine. They are responsible for the provision of continuing and comprehensive medical care to individuals, families and communities.

Tasks include:
a) examining and treating patients, managing treatment and examination of pregnant women and delivering babies, inspecting bodies and preparing reports, performing on-call duty and delivering lectures;
b) examining the patients to determine the nature of infections or illnesses;
c) conducting medical examinations and making diagnoses;
d) prescribing medicine and treating diagnosed illnesses, disorders or injuries;
e) giving advice on and applying preventive medicine methods and treatments;
f) participating in the development and implementation of public health laws and regulations to safeguard and promote the health of a community;
g) teaching medical students and other health sciences students, medical specialists and other health professionals;
h) preparing scientific papers and reports;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2211)

2211-01	Medical Officer Grade UD41
2211-02	Medical Doctor
2211-03	Medical Officer
2211-04	Medical Practitioner

UNIT GROUP 2212 SPECIALIST MEDICAL PRACTITIONERS

Specialist Medical Practitioners diagnose, treat and prevent illnesses, infections, injuries and other physical and mental impairments in humans, using specialised testing, diagnostic, medical, surgical, physical and psychiatric techniques through application of the principles and procedures of modern medicine. They specialise in certain disease categories or methods of treatment and may conduct medical education and research in their chosen areas of specialisation.

Tasks include:

a) conducting medical examinations and making diagnoses;
b) giving specialised medical or surgical treatment for particular types of illnesses, disorders or injuries;
c) giving advice on and applying preventive medicine methods and treatments;
d) participating in the development and implementation of public health laws and regulations for safeguarding and promoting the health of a community;
e) teaching medical students and other health sciences students, medical specialists and other health professionals;
f) preparing scientific papers and reports;
g) specialising in diagnostic evaluation, rehabilitative and reablement services and research related to hearing;
h) assisting patients under medical direction to overcome or minimise the effects or defects and disorders of speech;
i) treating the blind;
j) fixing all kinds of orthotic devices;
k) making splints with thermoplastic materials;
l) examining the patients to determine the diseases;
m) writing specifications for artificial limbs or other appliances and helping to fit them and explaining their use;
n) performing related tasks; and
o) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2212)

2212-01	Ear, Nose and Throat Specialist
2212-02	Heart Specialist
2212-03	Eye Specialist
2212-04	Anaesthetist

MINOR GROUP 222 NURSING AND MIDWIFERY PROFESSIONALS

Nursing and Midwifery Professionals provide treatment and care for people who are physically or mentally ill, disabled or infirm, and others in need of care due to potential risks to health including before, during and after childbirth. They are responsible for the planning, management and evaluation of the care of patients.

Occupations in this minor group are classified into the following unit groups:

2221 NURSING PROFESSIONALS
2222 MIDWIFERY PROFESSIONALS

UNIT GROUP 2221 NURSING PROFESSIONALS

Nursing Professionals provide treatment, support and care for people who are in need of nursing care due to the effects of ageing, illness, injury or other physical or mental impairment, or potential risks to health.

Tasks include:

a) providing nursing care, treatment and advice to the ill, injured, disabled and others in need of such care;
b) examining patients to determine the nature of their diseases;
c) conducting medical examinations and making diagnoses;
d) prescribing and giving treatment for diagnosed illnesses, disorders or injuries;
e) giving specialised medical or surgical treatment for particular types of illnesses, disorders and injuries;
f) giving advice on and applying preventive medicine methods and treatments;
g) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
h) teaching medical students and other health sciences students, medical specialists and other health professionals;
i) preparing scientific papers and reports;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2221)**

2221-01	Nurse Grade U41
2221-02	Professional Nurse
2221-03	Clinical Nurse
2221-04	District Nurse

UNIT GROUP 2222 MIDWIFERY PROFESSIONALS

Midwifery Professionals deliver babies, provide ante-natal and post-natal care and advise parents on the care of infants.

Tasks include:

a) advising expectant mothers on appropriate diet, exercises and conduct during the course of pregnancy and to facilitate childbirth, and noting their general health and progress;
b) delivering babies, or, more often, assisting doctors in deliveries;
c) assessing progress during pregnancy and childbirth, managing complications and recognising symptoms requiring referral to a medical doctor specialising in obstetrics;
d) monitoring the health status of newborns, managing complications and recognising symptoms requiring referral to a medical doctor specialising in neonatology;
e) monitoring pain and discomfort experienced by women during labour and alleviating pain using a variety of therapies, including the use of painkillers;
f) attending to mothers in the post-natal period to supervise their recovery, checking on babies' progress and advising parents on the care of infants;
g) conducting health education classes and seminars to promote the health of mothers and infants;
h) reporting births to government authorities;
i) conducting research on midwifery practices and procedures and disseminating findings through scientific papers and reports;
j) planning and conducting midwifery education activities in clinical and community settings;
k) advising on birth control methods;
l) participating in the formulation and implementation of public health laws and regulations for safeguarding and promoting the health of a community;
m) preparing scientific papers and reports;
n) performing related tasks; and
o) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2222)**

2222-01	Professional Midwife

MINOR GROUP 223 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS

Traditional and Complementary Medicine Professionals prevent, diagnose and treat illnesses, infections, injuries and other physical and mental impairments and maintain general health in humans by applying knowledge, skills and practices acquired through extensive study of the theories, beliefs and experiences originating from specific cultures.

Occupations in this minor group are classified into the following unit groups:

2231 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS

UNIT GROUP 2231 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS

Traditional and Complementary Medicine Professionals apply traditional medicine knowledge to the prevention, diagnosis and treatment of human illnesses.

Tasks include:

a) prescribing for and treating diagnosed illnesses, disorders or injuries;
b) examining patients, making diagnoses and treating illnesses and injuries using herbs, medicinal plants and other traditional techniques used in the community;
c) advising the community and individuals on a proper diet and conduct to preserve or improve health and well-being;
d) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
e) teaching medical students and other health sciences students, medical specialists and other health professionals;
f) preparing scientific papers and reports;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2231)

2231-01	Professional Traditional Medical Practitioner
2231-02	Traditional Medical Specialist
2231-03	Acupuncturist
2231-04	Homeopath

MINOR GROUP 224 PARAMEDICAL PRACTITIONERS

Paramedical Practitioners providing service advisor, diagnostics, treatment and limited prevention in scope and complexity from what a medical doctor does. They work autonomously, or with limited surveillance from medical doctor, and apply preliminary clinical procedures to treat and prevent disease, injuries and physical or mental disorders to a specific community.

Occupations in this minor group are classified into the following unit groups:

2241 PARAMEDICAL PRACTITIONERS

UNIT GROUP 2241 PARAMEDICAL PRACTITIONERS

Paramedical Practitioners providing service advisor, diagnostics, treatment and limited prevention in scope and complexity from what a medical doctor does. They work autonomously, or with limited surveillance from medical doctor, and apply preliminary clinical procedures to treat and prevent disease, injuries and physical or mental disorders to a specific community.

Tasks include:

a) providing emergency on-scene treatment, stabilising or saving patients and, when appropriate, transporting ill or injured patients to emergency medical and surgical treatment facilities such as a hospital and trauma centre;
b) prescribing for and treating diagnosed illnesses, disorders or injuries;
c) advising the community and individuals on a proper diet and conduct to preserve or improve health and well-being;
d) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
e) teaching medical students and other health sciences students, medical specialists and other health professionals;
f) preparing scientific papers and reports;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2241)

2241-01	Paramedic
2241-02	Advanced Care Paramedic
2241-03	Clinical Officer (Paramedical)
2241-04	Feldscher

MINOR GROUP 225 VETERINARIANS

Veterinarians conduct research, improve or develop concepts, theories and operational methods and diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialise in the treatment of a particular animal group, or provide professional services to commercial firms producing biological and pharmaceutical products.

Occupations in this minor group are classified into the following unit groups:

2251 VETERINARIANS

UNIT GROUP 2251 VETERINARIANS

Veterinarians diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialise in the treatment of a particular animal group or in a particular speciality area, or provide professional services to commercial firms producing biological and pharmaceutical products.

Tasks include:

a) controlling and treating animal diseases;
b) planning and carrying out maintenance work and improving the quality of livestock;
c) enforcing the law on the import of products of animals, monitoring of quarantine centres;
d) administering surgical or medical veterinary treatment;
e) rendering obstetric services to animals;
f) testing dairy cattle and other animals and inoculating animals against diseases;
g) advising on hygiene, feeding, breeding and care of animals;
h) inspecting quality, purity and safety of food made wholly or partly from raw materials of animal origin intended for human consumption;
i) assisting in epidemiological, radiological and other surveillance of animal health;
j) performing autopsies to determine the cause of death;
k) preparing scientific papers and reports;
l) performing related tasks; and
m) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2251)

2251-01	Veterinary Officer Grade GV41
2251-02	Veterinarian
2251-03	Veterinary Epidemiologist
2251-04	Veterinary Surgeon

MINOR GROUP 226 OTHER HEALTH PROFESSIONALS

Other Health Professionals conduct research, improve or develop concepts, theories and operational methods, and apply scientific knowledge related to medicine, dentistry, pharmacy, environmental health and hygiene, occupational safety and health, physiotherapy, nutrition and rehabilitation therapies.

Occupations in this minor group are classified into the following unit groups:

2261 DENTISTS
2262 PHARMACISTS
2263 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND HYGIENE PROFESSIONALS
2264 PHYSIOTHERAPISTS
2265 DIETICIANS AND NUTRITIONISTS
2266 AUDIOLOGISTS AND SPEECH THERAPISTS
2267 OPTOMETRISTS AND OPHTHALMIC OPTICIANS
2268 OCCUPATIONAL THERAPISTS
2269 HEALTH PROFESSIONALS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2261 DENTISTS

Dentists diagnose, treat and prevent diseases, injuries and abnormalities of the teeth, mouth, jaws and associated tissues by applying the principles and procedures of modern dentistry. They use a broad range of specialised diagnostic, surgical and other techniques to promote and restore oral health.

Tasks include:

a) providing dental treatment;
b) examining teeth, gums, jaws and other oral tissues using dental and x-ray equipment;
c) making diagnoses, advising on and giving the necessary dental treatment;
d) cleaning and filling cavities and extracting decayed or deformed teeth;
e) constructing inlays and crowns to replace teeth;
f) designing, constructing and fitting complete and partial dentures, orthodontic and other appliances and performing bridge work;
g) giving surgical, medical and other forms of treatment for particular types of dental and oral diseases and disorders;
h) participating in public activities to maintain or improve standards of oral health and dental care;
i) monitoring dental health exhibitions and providing guidance to staff;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2261)

2261-01	Dental Officer Grade UG41
2261-02	Dentist
2261-03	Dentist, Pedodontistry
2261-04	Paedodontist

UNIT GROUP 2262 PHARMACISTS

Pharmacists store and dispense medicine and offer consultation on the use of the medicine and its effects as per the prescription of a medical doctor and other health professional. They assist in research, preparation of tests and monitor medical therapy to enhance human health.

Tasks include:

a) carrying out regulatory activities, i.e. analysing the content of medicine, cosmetics and traditional medicine, and their registration and licensing activities;
b) checking prescriptions to ensure that recommended dosages are not exceeded and usage instructions are understood by the patient and advising on the possibility of incompatible drugs;
c) dispensing drugs in hospitals or selling them in pharmacies;
d) keeping prescription files and recording issue of narcotics, poisons and drugs;
e) conducting research to develop or improve pharmaceuticals, cosmetics and related chemicals;
f) determining the most suitable packaging for medical substances to avoid damage and facilitate storage and distribution;
g) preparing scientific papers and reports;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2262)

2262-01	Pharmacist Grade UF41
2262-02	Pharmacist
2262-03	Industrial Pharmacist
2262-04	Retail Pharmacist

UNIT GROUP 2263 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND HYGIENE PROFESSIONALS

Environmental and Occupational Health and Hygiene Professionals assess, plan and conduct programmes to identify, monitor and control environmental factors that can potentially affect human health to ensure safe and healthy workplaces, and to prevent disease or injury caused by chemical, physical, radiological and biological agents or ergonomic factors.

Tasks include:

a) inspecting business and residential premises and public areas to detect unsanitary conditions and health hazards;
b) investigating and preparing reports on all cases of infectious diseases;
c) developing, implementing and reviewing programmes and policies to minimise the risk of environmental and occupational hazards;
d) giving advice on environment sanitation problems and techniques;
e) promoting preventive and corrective measures such as control of disease carrying organisms and harmful substances in the air, hygienic food handling, proper disposal of waste and cleaning of public places;
f) organising campaigns, giving lectures and distributing materials to promote adoption of improved practices and techniques;
g) coordinating compensation, rehabilitation and return to work of injured workers;
h) applying hygiene and sanitation principles and practices in order to identify and solve problems arising in the course of work;
i) monitoring the status of sanitation, food production safety, assisting in the planning, coordination and evaluation of food industry education and consumer education, providing technical support in food technology aspects in planning, implementing legislation, training and other needs;
j) conducting security control tasks and food quality into food industry, domestic food and import compliance, food export controls and food analysis;
k) preparing and submitting reports;
l) performing related tasks; and
m) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2263)**

2263-01	Environmental Health Officer Grade U41
2263-02	Labour Affairs Officer - Occupational Safety and Health
2263-03	Sanitarian
2263-04	Hazardous Waste Management Technologist

UNIT GROUP 2264 PHYSIOTHERAPISTS

Physiotherapists assess, plan and conduct rehabilitative programmes that improve or restore human motor functions, enhance movement ability, relieve pain syndromes, and treat or prevent physical malfunction associated with injuries, diseases and other impairments. They apply a broad range of physical therapies and techniques such as movement, ultrasound, heating, laser and other techniques.

Tasks include:

a) providing scheduled physiotherapy treatment to patients;
b) providing advice to communities and individuals about proper posture to prevent injury and strengthen muscles;
c) conducting inspections to make diagnoses of disorders of bones, muscles and the circulatory system or the nervous system to determine the appropriate treatment;
d) massaging clients to improve blood circulation, soothe or stimulate nerves, facilitate elimination of waste matter, stretch contracted tendons and produce other therapeutic effects;
e) applying physiotherapy and related techniques as part of the physical or mental treatment of disabled persons;
f) establishing appropriate treatment for the patient;
g) performing adjustments of the spinal joints and extremities using hands or specialist equipment;
h) performing soft tissue therapy, such as massage;
i) educating and advising patients on rehabilitation exercises to aid long-term recovery and ensure health is maintained;
j) participating in the formulation and implementation of public health laws and regulations for safeguarding and promoting the health of a community;
k) teaching medical students and other health sciences students, medical specialists and other health professionals;
l) preparing scientific papers and reports;
m) performing related tasks; and
n) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2264)

2264-01	Medical Rehabilitation Officer Grade U41
2264-02	Medical Therapist
2264-03	Massage Therapist
2264-04	Physical Therapist

UNIT GROUP 2265 DIETICIANS AND NUTRITIONISTS

Dieticians and Nutritionists plan and supervise the preparation of diets for individuals or groups, supervise and evaluate health programmes and assist in appraising the various factors related to nutrition and food problems in the community.

Tasks include:

a) performing tasks related to the management and monitoring of clinical dietetics and community services, planning and preparing nutritious and appropriate food based on the hospital diet manual, and advisory services to patients who require therapeutic diets;
b) providing nutrition assessments, education, research and training;
c) collecting, managing and assessing data relating to health and nutritional status of individuals and groups;
d) monitoring food intake and quality to provide nutritional care;
e) planning and directing the preparation of therapeutic and other diets/menus for individuals or groups in hospitals, institutions and other establishments;
f) participating in nutrition education programmes and nutrition rehabilitation activities;
g) advising on nutrition aspects of community food issues and health programmes;
h) keeping abreast of knowledge in related fields and maintaining contacts with appropriate professionals;
i) preparing educational materials and giving talks and lectures on diet and nutrition;
j) preparing scientific papers and reports;
k) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
l) teaching medical students and other health sciences students, medical specialists and other health professionals;
m) performing related tasks; and
n) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2265)

2265-01	Dietetics Officer Grade U41
2265-02	Dietician
2265-03	Hospital Dietician
2265-04	Public Health Dietician

UNIT GROUP 2266 AUDIOLOGISTS AND SPEECH THERAPISTS

Audiologists and Speech Therapists evaluate, manage and treat physical disorders affecting human hearing, speech and communication. They prescribe corrective devices or rehabilitative therapies for hearing loss, speech disorders, and related sensory and neural problems and provide counselling on hearing and safe communication.

Tasks include:

a) administering auditory tests for infants, children and adults;
b) interpreting and reporting test results;
c) developing and improving test techniques;
d) advising on the selection, fitting and evaluation of hearing aids;
e) researching new advances in hearing aid technology, such as digital hearing aids;
f) testing and maintaining implanted devices, such as cochlear implants;
g) operating audiometric equipment;
h) conducting research into disorders affecting hearing and balance;
i) managing audiology services, including monitoring and improving the quality of service provided;
j) supervising support staff;
k) participating in the development and implementation of public health laws and regulations to safeguard and promote the health of a community;
l) teaching medical students and other health sciences students, medical specialists and other health professionals;

m) preparing scientific papers and reports;
n) performing related tasks; and
o) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2266)

2266-01	Audiologists
2266-02	Speech Therapist
2266-03	Orthoepist
2266-04	Orthophonist

UNIT GROUP 2267 OPTOMETRISTS AND OPHTHALMIC OPTICIANS

Optometrists and Ophthalmic Opticians examine and treat disorders of the eyes and visual system and advise on eye care and prescribe optical aids or other therapies.

Tasks include:
a) carrying out eye examinations to detect visual function anomalies;
b) treating and managing these anomalies using glasses, contact lenses, prisms, visual therapy and low vision devices as well as being a professional consultant in colour vision problems in the industry and in operation of vehicles, and offering advice to meet the needs and expectations of stakeholders;
c) examining eyes and performing vision tests to determine the nature and extent of vision abnormalities;
d) prescribing spectacles and contact lenses or other treatment to improve vision;
e) advising on the proper use and care of spectacles and contact lenses, appropriate lighting for work or reading and other visual aids;
f) fitting prescribed lenses into frames and adjusting frames or contact lenses on customers;
g) referring customers with symptoms of ocular diseases to a medical specialist;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2267)

2267-01	Optometry Officer Grade U41
2267-02	Optometrist
2267-03	Optician
2267-04	Ophthalmic Optician

UNIT GROUP 2268 OCCUPATIONAL THERAPISTS

Occupational Therapists help people of all ages who have physical, mental or social problems to adapt to any aspect of their life in order to lead more productive, independent and meaningful lives. Problems may have been from birth, caused by injury, illness, disability or ageing.

Tasks include:
a) assessing the condition/injury of the patient and disability affecting his functions;
b) encouraging the patient to be independent in daily activities including in his mobility, personal care and spiritual activities;
c) conducting educational programmes for the patient and his family as a preventive measure against complications and disability as well as optimal maintenance of the patient's ability to function;
d) providing psychological support to motivate the patient;
e) conducting training in social skills to improve the patient's ability to interact with the community;
f) encouraging patients to take part in leisure activities and appropriate sports;
g) designing and making orthotic devices / splints to support the patient's ability to function;
h) designing and making pressure garments for treatment of scars / keloids, oedema, etc.;
i) submitting a report on the evaluation, treatment plan and progress of the patient to medical officers and other relevant parties;
j) operating a daily centre for patients experiencing physical and psychosocial problems including monitoring and maintenance of their ability to function;

k) managing a support group for patients to share their problems;
l) performing related tasks; and
m) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2268)

2268-01	Occupational Therapist
2268-02	Occupational Therapy Officer Grade 23
2268-03	Case Manager Grade 23

UNIT GROUP 2269 HEALTH PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Health Professionals Not Elsewhere Classified in Minor Group 226: Other Health Professionals. This group include X-Ray Technician, Instructor and Perfusionist.

Tasks include:
a) reviewing and examining applications for radiographic examination;
b) providing a clear explanation to the patient about the examination and the necessary preparations in accordance with the instruction given;
c) taking samples from patients and animals for research;
d) preparing the test and storage of reagcut, media, standard solution and other suspensions;
e) submitting report on the results of testing for research and study;
f) oxygenates the patient's blood and supplies oxygen to the whole cell of the patient's body perfectly and effectively.
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2269)

2269-01	X-Ray Technician Grade U41
2269-02	Instructor Grade U41
2269-03	Blind Therapist
2269-04	Perfusionist

SUB-MAJOR 23 TEACHING PROFESSIONALS

Teaching Professionals teach the theory and practice of one or more disciplines at different educational levels, conduct research and improve or develop concepts, theories and operational methods pertaining to their particular disciplines, and prepare academic papers and books.

Occupations in this sub-major group are classified into the following minor groups:

231 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS
232 VOCATIONAL EDUCATION TEACHERS
233 SECONDARY EDUCATION TEACHERS
234 PRIMARY SCHOOL AND EARLY CHILDHOOD TEACHERS
235 MUSIC, ARTS AND PERFORMING ARTS TEACHERS
236 LANGUAGE TEACHERS
237 RELIGIOUS TEACHERS
238 TECHNOLOGY SKILLS AND TECHNICAL TRAINERS
239 OTHER TEACHING PROFESSIONALS

MINOR GROUP 231 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

University and Higher Education Teaching Professionals prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research and prepare academic papers and books.

Occupations in this minor group are classified into the following unit groups:

2311 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

UNIT GROUP 2311 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

University and Higher Education Teaching Professionals prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research and prepare academic papers and books.

Tasks include:

a) delivering lectures and conducting tutorials, research and releasing publications;
b) giving lectures, supervising thesis projects, managing practical work/tutorials and preparing lecture notes/laboratory manuals;
c) conducting examination matters, monitoring the practical training of students, assisting in reviewing / preparing the curriculum / syllabus, engaging in research work and undertaking student development work;
d) providing consultancy services to students and outsiders, supervising projects, theses and student papers, conducting research, publishing journals, articles, books and other forms of related publications, services, performing community and professional services, helping students develop their potential and character, and managing academic-related activities;
e) designing and modifying the curricula and preparing courses of study in accordance with the requirements;
f) encouraging discussion and independent thinking among students;
g) conducting research and developing concepts, theories and operational methods for application in the industry and other fields;
h) assisting in co-curricular activities;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2311)

2311-01	University Lecturer Grade DS45
2311-02	Medical Lecturer Grade DU51P
2311-03	UiTM Lecturer Grade DM41
2311-04	UiTM Assistant Lecturer Grade DM29

MINOR GROUP 232 VOCATIONAL EDUCATION TEACHERS

Vocational Education Teachers teach or instruct vocational subjects at educational institutions, secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.

Occupations in this minor group are classified into the following unit groups:

2321 VOCATIONAL EDUCATION TEACHERS

UNIT GROUP 2321 VOCATIONAL EDUCATION TEACHERS

Vocational Education Teachers teach or instruct vocational subjects at educational institutions, secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.

Tasks include:

a) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
b) teaching and supervising students class work and discipline;
c) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
d) preparing reports on students' work and conferring with other teachers and parents;
e) participating in staff meetings and educational conferences and workshops;
f) organising or assisting in co-curricular activities;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2321)

2321-01	Teacher, Technic
2321-02	Teacher, Vocational

MINOR GROUP 233 SECONDARY EDUCATION TEACHERS

Secondary Education Teachers teach one or more subjects in secondary school and organise educational activities.

Occupations in this minor group are classified into the following unit groups:

2331 SECONDARY SCHOOL TEACHERS

UNIT GROUP 2331 SECONDARY SCHOOL TEACHERS

Secondary School Teachers teach one or more subjects in secondary school and organise educational activities.

Tasks include:

a) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
b) teaching and supervising students' class work and discipline;
c) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
d) preparing reports on students' work and conferring with other teachers and parents;
e) participating in staff meetings and educational conferences and workshops;
f) organising or assisting in co-curricular activities;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2331)

2331-01	Graduate Education Services Officer Grade DG41
2331-02	Secondary Education Teacher
2331-03	Graduate Teacher Officer
2331-04	Pre-University Teacher

MINOR GROUP 234 PRIMARY SCHOOL AND EARLY CHILDHOOD TEACHERS

Primary School and Early Childhood Teachers teach various subjects at the primary education level and organise educational activities.

Occupations in this minor group are classified into the following unit groups:

2341 PRIMARY SCHOOL TEACHERS
2342 EARLY CHILDHOOD EDUCATORS

UNIT GROUP 2341 PRIMARY SCHOOL TEACHERS

Primary School Teachers teach various subjects at the primary education level.

Tasks include:

a) being responsible for the curriculum, co-curriculum, student affairs management, office management and administration;
b) preparing teaching programmes such as reading, writing and arithmetic according to the prescribed or recommended curriculum;
c) preparing, supervising and marking tests, projects and assignments to train pupils and to evaluate their progress, and giving additional guidance if necessary;
d) organising and supervising pupils' co-curricular activities such as assisting in sports activities, school concert, visits and special programmes;
e) encouraging the personal development of pupils and discussing their progress with parents;
f) maintaining attendance records and school discipline;
g) participating in staff meetings and educational conferences and workshops;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2341)

2341-01	Post-Diploma Education Service, Officer Grade DGA29
2341-02	Primary School Teacher
2341-03	Education Services Assistant Officer Grade DG29

UNIT GROUP 2342 EARLY CHILDHOOD EDUCATORS

Early Childhood Educators promote physical, mental and social development of pre-school children through educational activities and games.

Tasks include:

a) planning and organising activities designed to facilitate development of children's physical and social skills;
b) promoting language development through storytelling, role play, songs, rhymes, conversations and informal discussions;
c) observing children in order to evaluate and discuss progress and potential problems with parents;
d) supervising children's activities to ensure safety and resolving conflicts;
e) attending staff meetings, educational conferences and workshops;
f) performing related tasks; and
g) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2342)**

2342-01	Pre-Primary School Teacher
2342-02	Kindergarten Teacher
2342-03	Pre-school Teacher
2342-04	Early Childhood Educator

MINOR GROUP 235 MUSIC, ARTS AND PERFORMING ARTS TEACHERS

Music, Arts and Performing Arts Teachers teach theory, practical and performance in music, arts and performing arts and organise educational activities.

Occupations in this minor group are classified into the following unit :

2351 MUSIC TEACHERS
2352 ARTS TEACHERS
2353 PERFORMING ARTS TEACHERS

UNIT GROUP 2351 MUSIC TEACHERS

Music Teachers teach theory, practical and performance in music and organise educational activities.

Tasks include:

a) preparing and delivering lessons to students on fundamental topics in music;
b) organising performance groups and directing their rehearsals;
c) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
d) teaching and supervising students' class work and discipline;
e) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
f) preparing reports on students' work and conferring with other teachers and parents;
g) participating in staff meetings and educational conferences and workshops;
h) organising or assisting in co-curricular activities;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2351)**

2351-01	Music Teacher
2351-02	Vocal Teacher

UNIT GROUP 2352 ARTS TEACHERS

Arts Teachers teach theory, practical and performance in arts, including fine and applied arts such as painting and sculpture design and crafts.

Tasks include:

a) preparing and delivering lessons to students on fundamental topics in arts;
b) explaining and demonstrating artistic techniques;
c) planning and preparing lessons in accordance with the prescribed/recommended curriculum;
d) teaching and supervising students' class work and discipline;

e) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
f) preparing reports on students' work and conferring with other teachers and parents;
g) participating in staff meetings and educational conferences and workshops;
h) organising or assisting in co-curricular activities;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2352)

2352-01	Fine Arts Teacher
2352-02	Sculpture Teacher
2352-03	Painting Teacher

UNIT GROUP 2353 PERFORMING ARTS TEACHERS

Performing Arts Teachers teach theory and practical in performing arts, dance, drama, visual and other performing arts.

Tasks include:
a) preparing and delivering lessons to students on fundamental topics in performing arts;
b) explaining and demonstrating artistic techniques;
c) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
d) teaching and supervising students' class work and discipline;
e) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
f) preparing reports on students' work and conferring with other teachers and parents;
g) participating in staff meetings and educational conferences and workshops;
h) organising or assisting in co-curricular activities;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2353)

2353-01	Modelling Teacher
2353-02	Dance Teacher
2353-03	Drama Teacher

MINOR GROUP 236 LANGUAGE TEACHERS

Language teachers plan, prepare and organise language programme activities.

Occupations in this minor group are classified into the following unit groups:

2361 LANGUAGE TEACHERS

UNIT GROUP 2361 LANGUAGE TEACHERS

Language Teachers plan, prepare and organise language programme activities.

Tasks include:
a) coordinating all language programme activities including selecting participants, teaching, assessing course participants, as well as conducting studies and research for training requirements;
b) planning, preparing and delivering lessons according to classes and age groups;
c) marking and giving appropriate feedback on oral and written work;
d) formulating and writing new materials;
e) participating in social and cultural activities;
f) carrying out freelance teaching on a one-to-one basis;
g) conducting specialist courses for adults or business people who may require knowledge of scientific, technical or commercial terms;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2361)

2361-01	Language Teacher Grade DG41
2361-02	Intensive Language Teacher
2361-03	Migrant Education Teacher
2361-04	Practical Language Teacher

MINOR GROUP 237 RELIGIOUS TEACHERS

Religious Teachers teach a course in religion and theology.

Occupations in this minor group are classified into the following unit groups:

2371 RELIGIOUS TEACHERS

UNIT GROUP 2371	RELIGIOUS TEACHERS
Religious Teachers teach a course in religion and theology.	

Tasks include:

a) preparing and delivering lessons to students on topics of ethics, logic and contemporary religious thought;
b) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
c) teaching and supervising students' class work and discipline;
d) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
e) preparing reports on students' work and conferring with other teachers and parents;
f) participating in staff meetings and educational conferences and workshops;
g) organising or assisting in co-curricular activities;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2371)

2371-01	Ustaz/Ustazah
2371-02	Islamic Education Teacher
2371-03	Other Religious Education Teacher

MINOR GROUP 238 TECHNOLOGY SKILLS AND TECHNICAL TRAINERS

Technology Skills and Technical Trainers train school leavers and the existing industry workforce for employment purposes, leading to Malaysian Skills Certificate (SKM) Level 1 to 3, Malaysian Skills Diploma (DKM) Level 4, and Advance Malaysian Skills Diploma (DLKM) Level and above. More than 70 per cent of the training is hands-on and part of the training is conducted at the workplace through apprenticeship or the National Dual Training System.

Occupations in this minor group are classified into the following unit groups:

2381 VOCATIONAL TRAINING OFFICERS

UNIT GROUP 2381	VOCATIONAL TRAINING OFFICERS
Vocational Training Officers develop the National Occupational Skill Standards (NOSS), curriculum and training materials, teach or train students for employment purposes in one or more subjects such as petrochemistry; pharmacy; wood-based products; rubber and rubber-based products; oil palm-based industries; food processing; electrical and electronic equipment; medical devices; textiles and apparel; machinery and equipment; metals; transport equipment; business and professional services; integrated logistics services; ICT services; trade distribution; construction services; education and training; health services; tourism services.	

Tasks include:

a) carrying out research and development on vocational training in line with industry needs;
b) preparing and using lesson plans as well as demonstrating to transfer skills to trainees;
c) managing and providing training including teaching plans, explanatory papers, working papers, task lists and teaching aids as well as ensuring trainees acquire skills, and teaching practical and theory sessions;
d) ensuring the products of the national skill training system can fulfil industry requirements;
e) facilitating the knowledge sharing between industries and skill training centres which will contribute more to industrial R&D;
f) giving instructions and hands-on and theoretical lessons in their fields or expertise and supervising trainees at the workshop and shop;

g) identifying factors that cause imbalance in skilled human resource and competency;
h) planning and doing effective promotion for the skill training programme to upgrade workers' aptitude level and productivity;
i) introducing strategies, policies and programmes for development of human capital skills and competency through curriculum development; collaboration between industry and industrial training learning centres; better facilities for experts in the institution and the industry;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2381)

2381-01	Vocational Training Officer Grade DV41
2381-02	Skills Training Trainer
2381-03	Assistant Vocational Training Officer Grade DV29
2381-04	Training Officer Grade E41

MINOR GROUP 239 OTHER TEACHING PROFESSIONALS

Other Teaching Professionals conduct research and advise on teaching methods, teach those with learning difficulties or special needs; teach languages for migration and related purposes; give private tuition; teach information technology and other subjects outside the primary, secondary and higher education systems and provide other teaching services not classified elsewhere in Sub--Major 23, Teaching Professionals.

Occupations in this minor group are classified into the following unit groups:

2391 EDUCATION METHOD SPECIALISTS
2392 SPECIAL NEEDS TEACHERS
2393 INFORMATION TECHNOLOGY TRAINERS
2399 TEACHING PROFESSIONALS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2391 EDUCATION METHOD SPECIALISTS

Education Method Specialists conduct research and develop or advise on teaching methods, courses and teaching aids. They review and examine teachers' work, the functions of educational institutions and the results achieved and recommend changes and improvements.

Tasks include:
a) researching into current developments in curricula, teaching methods and other educational practices, and advising on necessary changes and possible improvements;
b) evaluating and advising on course contents and examination methods;
c) researching into audio-visual and other teaching aids;
d) documenting subjects and courses developed, and evaluating new courses;
e) providing ongoing professional development, training and consultative services to teachers;
f) organising and conducting workshops and conferences to train teachers in new programmes and methods;
g) developing the structure, content and objectives of new courses and programmes;
h) visiting schools periodically and conferring with administrative and teaching staff on matters relating to the curriculum, teaching methods, tools, etc;
i) visiting classrooms to observe teaching techniques and to evaluate teachers' performance and academic results obtained;
j) preparing reports and making recommendations to educational authorities concerning possible changes and improvements to the curriculum, teaching methods, etc;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2391)

2391-01	Curriculum Developer
2391-02	Education Methods Specialist
2391-03	School Inspector
2391-04	Educational Systems Evaluator

UNIT GROUP 2392 SPECIAL NEEDS TEACHERS

Special Needs Teachers teach physically or mentally disabled children, youths or adults, or those with learning difficulties or other special needs. They promote the social, emotional, intellectual and physical development of their students.

Tasks include:

a) designing or modifying the curricula and preparing lessons and activities adapted to students' abilities and needs;
b) giving instructions to individuals or groups using special techniques or teaching aids suited to the students' needs;
c) giving instructions using techniques or special teaching aids such as Braille or lip-reading appropriate to the students' disability and level and supervising work in class;
d) encouraging students to have confidence, helping them to discover and adopt methods which compensate for limitations imposed by their disability, and promoting a sense of achievement;
e) administering tests, evaluating and observing progress of each student and discussing it with parents, teachers, physiotherapists, social workers, etc.;
f) discussing various learning programmes with parents;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2392)

2392-01	Teacher, Special Education For The Deaf
2392-02	Teacher, Special Education For The Dumb
2392-03	Teacher, Special Education For The Blind
2392-04	Teacher, Special Education For The Mentally Handicapped

UNIT GROUP 2393 INFORMATION TECHNOLOGY TRAINERS

Information Technology Trainers develop, schedule and conduct training programmes and courses for computer and other information technology users.

Tasks include:

a) preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, demonstration models and supporting reference for training documentation;
b) carrying out training needs analyses;
c) designing course materials and other documents such as handouts, manuals and exercises;
d) preparing the learning environment and resources, including setting up IT equipment;
e) carrying out maintenance of hardware and software used for training purposes and recommending repairs and upgrades to management where appropriate;
f) keeping abreast of developments in relevant systems, software and online training technology;
g) dealing with administrative records;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2393)

2393-01	Satellite-Instruction Facilitator
2393-02	Computer Trainer
2393-03	Software Trainer

UNIT GROUP 2399 TEACHING PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Teaching Professionals Not Elsewhere Classified in Minor Group 239: Other Teaching Professionals. This group include Kesatria Officer, Educational Counsellor, Teacher, Adult Education and Tuition Teacher.

Tasks include:

a) planning, managing and coordinating matters related to the marching activities of the band, and enforcing the discipline of trainees;
b) assessing students' level of ability and determining their learning needs;
c) planning, preparing and delivering study programmes, lessons and workshops for individual students and groups;

d) assigning exercises and work relevant to students' level of ability, interests and aptitude;
e) revising curricula, course content, course materials and methods of instruction;
f) preparing students for examinations and assessments;
g) counselling students to help them understand and overcome personal, social or behavioural problems affecting their education;
h) teaching exceptionally intelligent and problematic students;
i) assisting school children who have academic, behavioural or personality problems and working with children, parents and teachers the ways for overcoming difficulties;
j) planning, organising and implementing special programmes to provide remedial or additional guidance;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2399)**

2399-01	Kesatria Officer Grade S41
2399-02	Educational Counsellor
2399-03	Vocational Student Counsellor
2399-04	Teacher, Adult Education

SUB-MAJOR 24 BUSINESS AND ADMINISTRATION PROFESSIONALS

Business and Administration Professionals perform analytical, conceptual and practical tasks to provide services in financial, human resource development, public relations, marketing, sales, medical, information and communication technology matters and conduct reviews of organisational structures, methods and systems as well as quantitative analyses of information in investment activities.

Occupations in this sub-major group are classified into the following minor groups:

241 FINANCE PROFESSIONALS
242 ADMINISTRATION PROFESSIONALS
243 SALES, MARKETING AND PUBLIC RELATIONS PROFESSIONALS

MINOR GROUP 241 FINANCE PROFESSIONALS

Finance Professionals plan and perform accounting services, advise on accountancy matters, plan and conduct financial audits of accounts of individuals, establishments and public or private institutions.

Occupations in this minor group are classified into the following unit groups:

2411 ACCOUNTANTS AND AUDITORS
2412 FINANCIAL AND INVESTMENT ADVISERS
2413 FINANCIAL ANALYSTS

UNIT GROUP 2411 ACCOUNTANTS AND AUDITORS

Accountants and Auditors plan, organise and administer accounting systems, and examine and analyse the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.

Tasks include:
a) managing the overall functions of accounting and finance, including performing analysis of financial reports and treasury functions;
b) advising on, planning and implementing budgetary policies and systems, account control and other accounting policies and systems;
c) preparing and certifying financial statements for presentation to the management, shareholders and statutory or other bodies;
d) auditing and preparing a draft audit report, accounts of the government, statutory bodies, local authorities, Islamic Religious Council and other funds;
e) preparing tax returns, advising on tax problems and supporting disputed claims before tax officials;
f) preparing or reporting on profit forecasts and budgets;
g) preparing project costing and risk analysis;
h) identifying areas of cost reduction and recommending cost saving/control measures;

i) conducting financial investigations, undertaking audits, preparing reports and advising on such matters as suspected fraud, insolvency, bankruptcy, mergers, capital financing and the purchase and sale of businesses;
j) acting as liquidation agents in matters relating to bankruptcy and taxation;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2411)**

2411-01	Accountant Grade WA41
2411-02	Executive Officer (Accounting) Grade 41
2411-03	Executive Officer (Accounting) Grade 9
2411-04	Executive Officer (Accounting) Grade L5

UNIT GROUP 2412 FINANCIAL AND INVESTMENT ADVISERS

Financial and Investment Advisers develop financial plans for individuals and organisations and invest and manage funds on their behalf.

Tasks include:
a) analysing the financial profile of companies for the purpose of making investment recommendations;
b) building and maintaining a client base;
c) interviewing clients to determine financial status and objectives, modified risk and other information needed to plan financial and investment strategies;
d) overseeing and coordinating treasury activities such as foreign exchange, money market and bond transactions;
e) arranging to buy and sell stocks and bonds for clients;
f) monitoring investment performance and reviewing investment plans based on modified needs and changes in markets;
g) carrying out inspections, research and analysis of real estate details for the purpose of providing valuation reports;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2412)**

2412-01	Finance Officer Grade W41
2412-02	Executive Officer (Finance) Grade L5
2412-03	Corporate Financial Adviser
2412-04	Financial and Investment Adviser

UNIT GROUP 2413 FINANCIAL ANALYSTS

Financial Analysts conduct quantitative analyses of information affecting investments in public and private institutions.

Tasks include:
a) analysing company financial profile for investment planning;
b) monitoring economic, industrial and corporate developments through analysis of available information;
c) preparing investment action plans based on financial analyses;
d) presenting oral and written reports on general economic trends, individual corporations, and entire industries;
e) performing related tasks; and
f) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2413)**

2413-01	Financial Analyst
2413-02	Bond Analyst
2413-03	Investment Consultant
2413-04	Risk Operation Analyst

MINOR GROUP 242 ADMINISTRATION PROFESSIONALS

Administration Professionals apply various concepts and theories to improve the effectiveness of organisations and the individuals within the organisations.

Occupations in this minor group are classified into the following unit groups::

2421 MANAGEMENT AND ORGANISATION ANALYSTS
2422 POLICY ADMINISTRATION PROFESSIONALS
2423 PERSONNEL AND CAREER PROFESSIONALS
2424 TRAINING AND STAFF DEVELOPMENT PROFESSIONALS
2425 ADMINISTRATIVE PROFESSIONALS
2426 RESEARCH AND DEVELOPMENT PROFESSIONALS

UNIT GROUP 2421 MANAGEMENT AND ORGANISATION ANALYSTS

Management and Organisation Analysts assist organisations to achieve greater efficiency and solve organisational problems. They study organisational structures, methods, systems and procedures.

Tasks include:
a) assisting and encouraging the development of objectives, strategies and plans aimed at achieving customer satisfaction and the efficient use of organisation resources;
b) analysing and evaluating current systems and structures;
c) discussing current systems with staff and observing systems at all levels of organisation;
d) providing guidance to clients for a more efficient organisation and finding solutions to organisational problems;
e) undertaking and reviewing studies by analysing existing and proposed methods and procedures such as administrative and clerical procedures;
f) recording and analysing organisational work flow charts, records, reports, manuals and job descriptions;
g) preparing and making proposals to revise methods and procedures, alter work flows, redefine job functions and resolve organisational problems;
h) assisting in implementing approved recommendations, verifying revised regulations and procedure manuals, and drafting other documentation;
i) reviewing operating procedures and advising on departure from procedures and standards;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2421)

2421-01	Organization and Methods Analyst
2421-02	Research and Information Analyst
2421-03	Operation Research Analyst
2421-04	Management Consultant

UNIT GROUP 2422 POLICY ADMINISTRATION PROFESSIONALS

Policy Administration Professionals plan, devise and execute policies on management of human resource and the organisation, financial resources, the economy, administration and development of regions/districts/local areas/land, social planning and administration, international relations and foreign affairs (including foreign services), national security/ defence and information technology management.

Tasks include:
a) liaising and consulting with programme administrators and other interested parties to identify policy needs;
b) reviewing existing policies and regulations to identify anomalies and inappropriate allocations;
c) researching social, economic and industrial trends, and client expectations of programmes and services provided;
d) formulating and analysing policy options, preparing briefing papers and recommendations for policy changes, and advising on preferred options;
e) conducting threat and risk assessments and developing responses;
f) reviewing operations and programmes to ensure consistency with organisational policies;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2422)

2422-01	Administrative and Diplomatic Officer Grade M41
2422-02	Policy Analyst
2422-03	Intelligence Officer
2422-04	Policy Officer

UNIT GROUP 2423 PERSONNEL AND CAREER PROFESSIONALS

Personnel and Career Professionals provide professional business services related to personnel policies such as employee recruitment or development, occupational analyses and vocational guidance.

Tasks include:

a) advising on and performing personnel functions relating to recruitment, placement, training, staff performance, promotion, compensation and employee-management relations;
b) maintaining personnel records and associated human resource information systems;
c) studying and analysing jobs performed in an establishment, conducting interviews with workers, supervisors and the management, and writing detailed post, job and occupation descriptions from data obtained;
d) preparing occupational information booklets/pamphlets and occupational classification systems;
e) advising on aspects of personnel administration, manpower research and planning, training or occupational information and vocational guidance;
f) studying and advising individuals on employment opportunities, career choices and further education or training;
g) providing guidance to students, parents and teachers in a wide range of matters, including students' personal problems, learning difficulties and special needs;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2423)

2423-01	Personnel Safety Officer
2423-02	Personnel Officer
2423-03	Human Resource Executive
2423-04	Job Analyst

UNIT GROUP 2424 TRAINING AND STAFF DEVELOPMENT PROFESSIONALS

Training and Staff Development Professionals plan, develop, conduct and evaluate training and development programmes to ensure that the management and staff acquire skills and develop the competencies required by the organisation to meet organisational objectives.

Tasks include:

a) identifying training needs and requirements of individuals and organisations;
b) setting human resource development objectives and evaluating learning outcomes;
c) preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, demonstration models and supporting training reference documentation;
d) designing, coordinating, scheduling and conducting training and development programmes that can be delivered in the form of individual and group instruction, and facilitating workshops, meetings, demonstrations and conferences;
e) liaising with external training providers to arrange delivery of specific training and development programmes;
f) promoting internal and external training and development, and evaluating these promotional activities;
g) monitoring and conducting ongoing evaluation and assessment of internal and external training quality and effectiveness, and reviewing and modifying training objectives, methods and course deliverables;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2424)

2424-01	Staff Training Officer
2424-02	Vocational Staff Training Officer
2424-03	Workforce Development Specialist
2424-04	Training Developer

UNIT GROUP 2425 ADMINISTRATIVE PROFESSIONALS

Administrative Professionals handle work related to financial management, supply and development procurement, management, services of personnel, office administration, official functions, consular matters and other administrative duties.

Tasks include:

a) planning, formulating and implementing public policies;
b) preparing working papers, concept papers and reports on organisational performance;
c) organising meetings / conferences;
d) conducting research and maintaining organisational profile and database;
e) coordinating travel arrangements for staff on work matters;
f) preparing and assessing follow-up reports of staff and/or clients;
g) coordinating all training courses and maintaining staff training records;
h) maintaining scheduling record;
i) handling stationery requisition, printing, binding and general logistics support;
j) performing related tasks; and
k) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2425)

2425-01	Administrative Officer Grade N41
2425-02	Executive Officer (Administration) Grade 41
2425-03	Executive Officer (Administration) Grade L5
2425-04	Public Service Commission Officer

UNIT GROUP 2426 RESEARCH AND DEVELOPMENT PROFESSIONALS

Research and Development Professionals plan, execute policies and responsible for basic research and science to the development of technology and new inventions.

Tasks include:

a) conducting research to produce new discoveries;
b) conducting research to improve the quality of existing inventions;
c) conducting research to improve production;
d) evaluating and determining the results of such research could be used for development purposes;
e) enforcing relevant acts;
f) carrying out studies and research on quality assurance, research and the transfer of science and technology and development, and training courses for users in the country;
g) conducting basic and applied research, expert advice, and disseminate information on related technologies in the country;
h) carrying out research development (R & D) in various fields; and
i) enhancing knowledge and coordinating the work performance.

Examples of the occupations classified here: (refer to index; unit group 2426)

2426-01	Research Officer Grade Q41
2426-02	Scientific Officer Grade C41
2426-03	Agro-Based Biotech Food Researcher
2426-04	Aquaculture Biotech Researcher

MINOR GROUP 243 SALES, MARKETING AND PUBLIC RELATIONS PROFESSIONALS

Sales, Marketing and Public Relations Professionals plan, develop, coordinate and carry out information dissemination programmes to promote the organisation, goods and services, and represent companies in selling a range of technical, industrial, medical, pharmaceutical and ICT goods and services to improve their structure, efficiency and/or profits.

Occupations in this minor group are classified into the following unit groups:

2431 ADVERTISING AND MARKETING PROFESSIONALS
2432 PUBLIC RELATIONS PROFESSIONALS
2433 TECHNICAL AND MEDICAL SALES PROFESSIONALS (EXCLUDING ICT)
2434 INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT) SALES PROFESSIONALS

UNIT GROUP 2431 ADVERTISING AND MARKETING PROFESSIONALS

Advertising and Marketing Professionals develop and coordinate advertising strategies and campaigns and develop market opportunities for new and existing goods and services.

Tasks include:
a) planning, implementing and monitoring various business activities;
b) reporting on customer feedback and requirements to manufacturers;
c) developing and devising creative ideas for an advertising campaign for a brand or business;
d) advising clients on how, when and where to spend their advertising budgets;
e) providing direct, creative and strategic communication with the target audience, e.g. direct mail and direct response radio advertising;
f) interacting with the media;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2431)

2431-01	Advertising Executive Account
2431-02	Market Research Business Analyst
2431-03	Sales Promotion Officer
2431-04	Business Efficiency Officer

UNIT GROUP 2432 PUBLIC RELATIONS PROFESSIONALS

Public Relations Professionals improve, advise or apply operational methods to build, maintain and manage communications between an organisation and the public.

Tasks include:
a) managing press conferences, draft press releases, briefing notes and information publications, exhibitions and annual reports;
b) writing and editing press releases, in-house newsletters, speeches, articles and annual reports;
c) maintaining and updating information on the organisation's website;
d) preparing and supervising the production of publicity brochures, handouts, promotional videos, photographs, films and multimedia programmes;
e) responding to queries from individuals, journalists and other organisations;
f) giving briefings at presentations, press conferences, radio and TV interviews, and meetings;
g) developing and maintaining good working relations with the media, including local and national newspapers, magazines, radio and television;
h) organising special events such as press conferences, exhibitions, open days, tours, competitions and sponsorship;
i) fostering community relations through events such as open days and involvement in community initiatives;
j) focusing on improving the well-being of individuals, families and the community.
k) planning, research and evaluation;
l) performing related tasks; and
m) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2432)

2432-01	Information Officer Grade S41
2432-02	Public Relations Officer
2432-03	Corporate Affairs Executive
2432-04	Industrial Relations Executive

UNIT GROUP 2433 TECHNICAL AND MEDICAL SALES PROFESSIONALS (EXCLUDING ICT)

Technical and Medical Sales Professionals (Excluding ICT) improve, advise or apply operational methods specialised in the sale of medical and healthcare products including installations, equipment and technical products and related services, and provide specialised information as required.

Tasks include:

a) assessing clients' needs and recommending appropriate goods or services;
b) attending company meetings, technical data presentations and briefings;
c) being sensitive to the development of the National Health Service (NHS), anticipating potential negative and positive impacts on the business and adopting appropriate strategies;
d) keeping abreast of the health service activities in a particular area;
e) providing information on the design for products or services which shall be in accordance with customer requirements;
f) preparing reports and working papers to carry out a demonstration of the benefits of a product or service;
g) arranging delivery of goods, installation of equipment and provision of services;
h) planning, research and evaluation;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2433)

2433-01	Sales Representative, Medical
2433-02	Sales Representative, Medical Devices
2433-03	Sales Representative, Medical Hardware
2433-04	Sales Representative, Active Implantable Devices

UNIT GROUP 2434 INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT) SALES PROFESSIONALS

Information and Communications Technology (ICT) Sales Professionals sell a range of computer hardware, software and other information and communications technology goods and services including installation and provide specialised information as required.

Tasks include:

a) soliciting orders and selling goods to retail, industrial, wholesale and other establishments;
b) selling technical equipment, supplies and services to business establishments or individuals;
c) discussing the needs of new and existing customers and providing specialised information about how specific equipment, supplies and services meet those needs;
d) quoting and negotiating prices and credit terms, completing contracts and recording orders;
e) updating customer records and preparing sales reports;
f) arranging delivery of goods, installation of equipment and provision of services; and
g) reporting customers' reactions and requirements to manufacturers.

Examples of the occupations classified here: (refer to index; unit group 2434)

2434-01	Sales Representative, Information and Communications Technology
2434-02	Sales Representative, Computer
2434-03	Product Support Engineer
2434-04	Information Technology Sales Engineer

SUB-MAJOR 25 INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS

Information and Communications Technology Professionals conduct research, plan, design, write, test, advise and improve information technology systems, hardware, software and related concepts for specific applications; develop associated documentation including principles, policies and procedures; and design, develop, control, maintain and support databases and other information systems to ensure optimal performance and data integrity and security.

Occupations in this sub-major group are classified into the following minor groups:

251 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS
252 DATABASE AND NETWORK PROFESSIONALS
253 INFORMATION TECHNOLOGY SECURITY PROFESSIONALS
254 CREATIVE AND DIGITAL CONTENT PROFESSIONALS

MINOR GROUP 251 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS

Software and Application Developers and Analysts conduct research, plan, design, write, test, advise on and improve information technology systems such as hardware, software and other applications to meet specific requirements.

Occupations in this minor group are classified into the following unit groups:

2511 COMPUTER SYSTEMS ANALYSTS
2512 SOFTWARE DEVELOPERS
2513 WEB AND MULTIMEDIA DEVELOPERS
2514 APPLICATION PROGRAMMERS
2519 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2511 COMPUTER SYSTEMS ANALYSTS

Computer Systems Analysts gather and analyse facts on operations, procedures and systems for transfer into a program appropriate for data processing equipment, and recommend computer use to increase productivity efficiency and organisational profit.

Tasks include:
a) preparing program specifications for computer programmers;
b) conducting research, analysing and evaluating information technology requirements, procedures or customer problems;
c) developing, implementing recommendations and plans for improving current or future information systems;
d) identifying and evaluating inefficiencies and analysing processes, procedures and work practices to optimise organisational performance;
e) creating, taking on and implementing system testing projects;
f) developing functional specifications for use by system developers;
g) expanding or modifying systems to improve work flow or new services;
h) coordinating and linking the computer systems within an organisation to increase optimise organisational operation;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: **(refer to index; unit group 2511)**

2511-01	Management Information Systems (MIS) Analyst
2511-02	Computer Systems Analyst
2511-03	Computer Consultant
2511-04	Information Technology Systems Consultant

UNIT GROUP 2512 SOFTWARE DEVELOPERS

Software Developers study, analyse and evaluate requirements for existing or new software applications and operating systems, and design, develop, test and maintain software solutions to meet the requirements.

Tasks include:
a) studying, analysing and evaluating requirements for software applications and operating systems;
b) studying, designing and developing computer software systems;
c) consulting with engineering staff to evaluate interfaces between hardware and software;
d) developing and directing software testing and procedure validation;
e) modifying existing software to correct errors, to adapt it to new hardware or to upgrade interfaces and improve performance;

f) directing software programming and development of documentation;
g) assessing, developing, upgrading and documenting maintenance procedures for operating systems, communication environments and application software;
h) consulting with customers concerning maintenance of software system; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2512)

2512-01	Software Developer
2512-02	Multimedia Software Developer
2512-03	Software Designer
2512-04	Design Engineer

UNIT GROUP 2513 WEB AND MULTIMEDIA DEVELOPERS

Web and Multimedia Developers combine design and technical knowledge to study, analyse, evaluate, design, programme and modify websites and applications that display text, graphics, animation, imaging, audio and video, and other interactive media.

Tasks include:
a) analysing, designing and developing Internet sites applying a mixture of artistry and creativity with software programming and scripting languages and interfacing with operating environments;
b) designing and developing digital animation, imaging, presentations, games, audio and video clips, and Internet applications using multimedia software, tools and utilities, interactive graphics and programming languages;
c) communicating with network specialists regarding web-related issues such as security and hosting websites to control and enforce Internet and web server security, space allocation, user access, business continuity, website backup and disaster recovery planning;
d) designing, developing and integrating computer code with other specialised inputs such as image files, audio files and scripting languages to produce, maintain and support websites;
e) assisting in analysing, specifying and developing Internet strategies, web-based methodologies and development plans;
f) performing related tasks; and
g) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2513)

2513-01	Website Developer
2513-02	Internet/ Intranet Developer
2513-03	Website Architect
2513-04	Webmaster

UNIT GROUP 2514 APPLICATION PROGRAMMERS

Application Programmers write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.

Tasks include:
a) writing and maintaining the program code outlined in instructions and specifications in accordance with quality accredited standards;
b) revising, repairing or expanding existing programs to increase operating efficiency or adapt to new requirements;
c) conducting trial runs of programs and software applications to confirm that they will produce the desired information;
d) compiling and writing documentation of program development;
e) identifying and communicating technical problems, processes and solutions;
f) performing related tasks; and
g) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2514)

2514-01	Computer Programmer
2514-02	Software Programmer
2514-03	Technical Programmer
2514-04	Information Technology Programmer

UNIT GROUP 2519 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS NOT ELSEWHERE CLASSIFIED

This unit group covers Software and Application Developers and Analysts Not Elsewhere Classified in minor group 251: Software and Application Developers and Analysts. As an example, this group include Software Tester, System Tester and Quality Assurance Engineer.

Tasks include:

a) developing and documenting software testing plans;
b) installing software and hardware and configuring operating system software in preparation for testing;
c) verifying that programme functions are according to user requirements and established guidelines;
d) executing, analysing and documenting results of software application tests and information and telecommunication system tests;
e) developing and implementing software and basic information system testing, procedures and scripts;
f) performing related tasks; and
g) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2519)

2519-01	Software Tester
2519-02	Systems Tester
2519-03	Product Quality Assurance Engineer (Information Technology)
2519-04	Quality Assurance Analyst (Information Technology)

MINOR GROUP 252 DATABASE AND NETWORK PROFESSIONALS

Database and Network Professionals design, develop, maintain and support optimal performance and control security and infrastructure, including database, hardware and software, network and operating systems.

Occupations in this minor group are classified into the following unit groups:

2521 DATABASE DESIGNERS AND ADMINISTRATORS
2522 INFORMATION TECHNOLOGY SYSTEM ADMINISTRATORS
2523 COMPUTER NETWORK PROFESSIONALS
2524 DATA PROFESSIONALS

UNIT GROUP 2521 DATABASE DESIGNERS AND ADMINISTRATORS

Database Designers and Administrators design, develop, control, maintain and support the optimal performance and security of databases.

Tasks include:

a) designing and developing database architecture and structures for information system projects;
b) designing, constructing, modifying, integrating, implementing and testing database management systems;
c) conducting research and advising on the selection, application and implementation of database management tools;
d) developing and implementing data administration policy, documentation, standards and models;
e) developing policies and procedures for database backup and data recovery;
f) conducting preventive operations and maintenance of backups and recovery, and enforcing security and integrity controls;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2521)

2521-01	Database Architect
2521-02	Database Analyst
2521-03	Database Administrator
2521-04	Database Designer

UNIT GROUP 2522 INFORMATION TECHNOLOGY SYSTEM ADMINISTRATORS

Information Technology System Administrators develop, maintain and support optimal performance and control security of information technology systems.

Tasks include:

a) maintaining and administering computer networks and related computing environments including computer hardware, system software, application software and all configurations;
b) recommending changes to improve systems and network configurations, and determining hardware or software requirements related to such changes;
c) diagnosing hardware and software problems; performing data backup and disaster recovery operation;
d) operating master consoles to monitor the performance of computer systems and networks, and coordinating computer network access and use;
e) performing related tasks; and
f) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2522)

2522-01	Information Technology Officer Grade F41
2522-02	Executive Officer (Information Technology) Grade 41
2522-03	Executive Officer (Information Technology) Grade 9
2522-04	Executive Officer (Information Technology) Grade L5

UNIT GROUP 2523 COMPUTER NETWORK PROFESSIONALS

Computer Network Professionals research, analyse and recommend strategies for network architecture and development. They implement, manage, maintain and configure network hardware and software, and monitor, troubleshoot and optimise performance.

Tasks include:

a) analysing, developing, interpreting and evaluating complex system designs and architectural specifications, data models and diagrams in computer system development configuration and integration;
b) investigating, analysing, evaluating and monitoring the network infrastructure to ensure networks are configured to operate at optimum performance;
c) assessing and recommending improvements to network operations and integrated hardware, software, communications and operating systems;
d) providing specialist skills in supporting and troubleshooting network problems and emergencies;
e) installing, configuring, testing, maintaining and administering new and upgraded networks, software database applications, servers and workstations;
f) providing network programming to support business and special requirements;
g) providing and maintaining procedures and documentation for network inventory, and recording diagnoses and resolutions of network faults, enhancements and modifications to the network, and maintenance instructions;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2523)

2523-01	Network Analyst
2523-02	Network Services Consultant
2523-03	Network Administrator
2523-04	Network Infrastructure Administrator

UNIT GROUP 2524 DATA PROFESSIONALS

Data Professionals is the collection of workforces primarily specialising in the data science field, ie that provides meaningful information based on large amounts of complex data or big data. It combines different fields of work in statistics and computation to interpret data for decision-making purposes.

Tasks include:

a) preparing documentation to outline data sources, models and algorithms used and developed;
b) extracting data from data sources;
c) proposing new uses for existing data sources and structures;
d) integrating multiple data sets to build large and complex data sets;
e) building software to scrub, combine and manage data;
f) applying data mining techniques to investigate leads, identify patterns and regularities in data;
g) implementing automated processes to produce scale models;
h) developing complex code, scripts and data pipelines to process structured and unstructured data;
i) testing data system configurations to increase efficiency;
j) enabling searching, data visualisation, and advanced analytics functionality;
k) monitoring data system performance;
l) facilitating data cleansing and enrichment; and
m) performing data validation and quality control checks.

Examples of the occupations classified here: (refer to index; unit group 2524)

2524-01	Data Scientist
2524-02	Big Data Engineer
2524-03	Data Analyst
2524-04	Data Modeller

Minor Group 253 INFORMATION TECHNOLOGY SECURITY PROFESSIONALS

Information Technology Security Professionals that assesses and addresses security risks for and within an organisation parameters.

Occupations in this minor group are classified into the following unit groups:

2531 CYBERSECURITY PROFESSIONALS

UNIT GROUP 2531 CYBERSECURITY PROFESSIONALS

Cybersecurity Professionals includes not only technically focused staff, but also those who apply knowledge of cybersecurity when preparing their organization to successfully implement its mission. A knowledgeable and skilled cybersecurity workforce is needed to address cybersecurity risks within an organization's overall risk management process.

Task include:

a) conceptualizing, designing, procuring, and/or building secure information technology (IT) systems, with responsibility for aspects of system and/or network development;
b) providing the support, administration, and maintenance necessary to ensure effective and efficient information technology (IT) system performance and security;
c) providing leadership, management, direction, or development and advocacy so the organization may effectively conduct cybersecurity work;
d) identifying, analyzing, and mitigates threats to internal information technology (IT) systems and/or networks;
e) performing highly-specialized review and evaluation of incoming cybersecurity information to determine its usefulness for intelligence;
f) providing specialized denial and deception operations and collection of cybersecurity information that may be used to develop intelligence; and
g) investigating cybersecurity events or crimes related to information technology (IT) systems, networks, and digital evidence.

Examples of the occupations classified here: (refer to index; unit group 2531)

2531-01	Information and Communication Technology Security Executive
2531-02	Cyber Security Executive
2531-03	Digital Forensic Specialist
2531-04	Security Specialist (Information Technology)

Minor Group 254 CREATIVE AND DIGITAL CONTENT PROFESSIONALS

Creative and Digital Content Professionals conceptualize, plan, create, produce and develop digital content through various delivery medium such as animation, games, visual effects, new media, Virtual Reality (VR)/ Augmented Reality (AR) and other digital media format.

Occupations in this minor group are classified into the following unit groups:

2541 ANIMATION AND VISUAL EFFECTS PROFESSIONALS
2542 DIGITAL GAMES AND eSPORTS PROFESSIONALS
2543 CREATIVE CONTENT DESIGNERS PROFESSIONALS

UNIT GROUP 2541 ANIMATION AND VISUAL EFFECTS PROFESSIONALS

Animation and Visual Effects Professionals combine artistic and technical knowledge to conceptualize, plan, create, produce, develop digital content that display text, graphics, animation, imaging, audio and video, and other content type for animation, visual effects (vfx), new media and other linear digital media format.

Task Include:
a) conceptualizing the digital content with artistic and technical knowledge;
b) planning and organize the workflow and production pipeline to ensure quality output;
c) defining the content either visually, verbally or in written form regarding to the final output format;
d) implementing or assisting in the implementation of that digital content;
e) analysing and evaluating multiple options in decision-making process to make sure the most optimum solution is chosen;
f) communicating clearly with the with supervisor and subordinates to ensure task deliveries are met in a timely manner;
g) collaborating proactively with the other members of the team including from different expertise to solve problems;
h) iterating creation of digital content to improve output quality;
i) performing related tasks through digital content creation tools, rendering pipeline, tools and technology; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2541)

2541-01	Layout Artist
2541-02	3D Animator
2541-03	2D Animator
2541-04	CG Modeler

UNIT GROUP 2542 DIGITAL GAMES AND eSPORTS PROFESSIONALS

Digital Games and eSports Professionals combine artistic and technical knowledge to conceptualize, plan, create, produce, develop digital content that display text, graphics, animation, imaging, audio and video, and other content type for games, Virtual Reality (VR)/ Augmented Reality (AR) and other non-linear digital media format.

Task Include:
a) organising the creation of a game content, makes it happen on time and within the budget;
b) creating the look, feel and story of a game, decides how the game will play;
c) creating the artwork, such 2D, 3D, animation for visual art assets for the game;
d) composing the music and creates the sound effects, integrates them into the game;
e) implementing features and functionalities through the programming to make the game fun to play;

f) testing the game to identify the mistakes in games, checks them for bugs, glitches and any errors;
g) sollaborating proactively with the other members of the team including from different expertise to solve problems;
h) optimising digital content for real-time performance efficiency;
i) performing related tasks through digital content creation tools, game engines, tools and technology; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2542)

2542-01	Game Designer (Digital)
2542-02	Level Designer (Digital)
2542-03	QA Tester / Game Tester (Digital)
2542-04	Game Producer (Digital)

UNIT GROUP 2543 CREATIVE CONTENT DESIGNERS PROFESSIONALS

Creative Content Designers Professionals combine artistic and technical knowledge to conceptualize, plan, create, produce, develop digital content that display text, graphics, animation, imaging, audio and video, and other content type for various digital media including both linear and non-linear format.

Task Include:
a) creating world class, user centered designs through considerations of user research, business requirements, customer feedback and usability study findings;
b) developing conceptual diagrams, wireframes, visual mockups, prototypes and visual design of web and mobile applications;
c) developing and maintaining detailed user interface specifications;
d) presenting design works to user experience, product, business owners for review and feedback;
e) creating and implementing usability studies, personality, navigational structures, and affinity diagrams;
f) providing usability recommendations based on industry best practices, analytics, and user behavior;
g) collaborating proactively with the other members of the team including from different expertise to solve problems;
h) optimising user experience based on the compilation of data analytics of user activities;
i) performing related tasks through digital content creation tools, visualization software, tools and technology; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2543)

2543-01	Web Designer
2543-02	Graphic Designer
2543-03	Typographical Designer
2543-04	Designer

SUB-MAJOR 26 LEGAL PROFESSIONALS

Legal Professionals conduct research, improve or develop concepts, theories and operational methods, or apply knowledge in activities relating to the law and regulations.

Occupations in this sub-major group are classified into the following minor groups::

261 LEGAL PROFESSIONALS

MINOR GROUP 261 LEGAL PROFESSIONALS

Legal Professionals conduct research, improve or develop concepts, theories and methods of operation, or apply their knowledge in activities relating to the law and regulations, and plead cases or conduct prosecutions in courts, or preside over judicial proceedings and pronounce judgement in courts.

Occupations in this minor group are classified into the following unit groups:

2611 LAWYERS
2612 JUDGES
2619 LEGAL PROFESSIONALS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2611 LAWYERS

Lawyers give clients legal advise on a wide variety of subjects and plead cases or conduct prosecutions in courts, or instruct barristers or advocates to plead in higher courts of justice.

Tasks include:

a) supervising and administering the Legal Aid Bureau branches, drafting statements of claim, statements of defence, petitions, affidavits, giving legal advice to eligible clients, representing clients in trials in the Court of Appeal, High Court, Magistrates' Court and the Sharia Court;
b) managing the Sharia Court in the district, acting as the Sharia Subordinate Court Judge, preparing the grounds of judgment of appeal cases, legal reports for publication in the Sharia Law Journal and certifying the application certificate in estate distribution under the designated jurisdiction;
c) drafting legislation and preparing government regulations based on existing laws;
d) providing legal advice to clients (including the government) on a wide variety of subjects and undertaking legal business on clients' behalf;
e) assisting clients to negotiate settlements in matters which involve legal disputes;
f) examining the circumstances of disputes or reported crimes to ascertain facts and their legal implications;
g) preparing pleadings or cases for the plaintiff or defendant and conducting them in court;
h) representing clients in the lower court or instructing barristers or advocates to plead in higher courts of justice;
i) receiving briefs and pleading in a higher court;
j) acting as prosecutor on behalf of the government in criminal cases;
k) drawing up legal documents, wills, affidavits, contracts and administering oaths;
l) performing related tasks; and
m) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2611)

2611-01	Legal Officer Grade L41
2611-02	Executive Officer (Legal) Grade 41
2611-03	Syariah Officer Grade LS41
2611-04	Executive Officer (Legal) Grade 9

UNIT GROUP 2612 JUDGES

Judges preside over criminal and civil proceedings in courts of law.

Tasks include:

a) hearing and weighing arguments and evidence;
b) interpreting and enforcing regulatory procedure and making rulings on the admissibility of evidence;
c) directing the jury on the legal details applicable to the case;
d) researching a legal issue and preparing a report on the issue;
e) determining the rights and obligations of the parties involved;
f) pronouncing judgment;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2612)

2612-01	Judge
2612-02	Magistrate
2612-03	Judge, Native Court
2612-04	Judge, Federal Court

UNIT GROUP 2619 LEGAL PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Legal Professionals Not Classified Elsewhere in Minor Group 261: Legal Professionals. As an example, this group include Commissioner for Oaths, Register of Court, Trust Officer and Public Trustee.

Tasks include:

a) drawing up legal documents and affirming and administering oaths and statutory declarations;
b) implementing legal policy and regulations;
c) performing administration work in courts of law;
d) administering the estates of deceased persons or other trusts;
e) taking charge and administering estates of insolvents (bankrupts) or properties and assets of companies;
f) determining, by inquest, the causes of any death not obviously due to natural causes;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2619)

2619-01	Commissioner for Oaths
2619-02	Registrar of Court
2619-03	Trust Officer
2619-04	Public Trustee

SUB-MAJOR 27 HOSPITALITY AND RELATED SERVICES PROFESSIONALS

Hospitality and Related Services Professionals conduct research, improve or develop concepts, theories and operational methods, or apply technical knowledge of hotel and restaurant operations or other similar organizations.

Occupations in this sub-major group are classified into the following minor groups:

271 HOTEL AND RESTAURANT PROFESSIONALS

MINOR GROUP 271 HOTEL AND RESTAURANT PROFESSIONALS

Hotel and Restaurant Professionals conduct research, plan, develop, and improve operations management organization providing accommodation, food, drinks and other hospitality services.

Occupations in this minor group are classified into the following unit groups:

2711 HOTEL PROFESSIONALS
2712 RESTAURANT PROFESSIONALS

UNIT GROUP 2711 HOTEL PROFESSIONALS

Hotel Professionals conduct research, plan, develop, and improve operational management of hotels, motels and similar establishments providing accommodation and other services, including front office (reception, concierge and reservations), food and beverage operations and housekeeping.

Tasks include:

a) planning and improving operational management of hotels, restaurants and establishments;
b) organizing accommodation, catering and other hotel services;
c) promoting and marketing the business;
d) implementing the budget plan, finance and control expenses;
e) setting and achieving sales and profit targets;
f) recruiting, training and monitoring staff;
g) planning work schedules for individuals and teams;
h) meeting and greeting customers;
i) handling customer complaints and comments;

j) addressing and resolving problems;
k) ensuring events and conferences run smoothly;
l) supervising maintenance, supplies, renovations and furnishings;
m) dealing with contractors and suppliers;
n) ensuring security is effective;
o) carrying out inspections of property and services;
p) ensuring compliance with licensing laws, health and safety and other statutory regulations;
q) performing related tasks; and
r) enhancing knowledge and coordinating the work performance.

Examples of the occupations classified here: (refer to index; unit group 2711)

2711-01	Guest Service Officer
2711-02	Hotel Operations Executive
2711-03	Food and Beverage Guest Services Executive
2711-04	Executive Concierge Hotel

UNIT GROUP 2712 RESTAURANT PROFESSIONALS

Restaurant Professionals conduct research, plan, develop and improve the operational management of cafes, restaurants and similar establishments providing food and catering services.

Tasks include:
a) planning and improving the management of restaurant operations;
b) analyzing the level of sales and profit restaurant;
c) planning and coordinating menus;
d) coordinating the entire operation of the restaurant during scheduled shifts;
e) ensuring all employees adhere to the company's uniform standards;
f) meeting and greeting customers and organizing table reservations;
g) advising customers on menu and beverage choices;
h) organizing and supervising the shifts of kitchen, waiting and cleaning staff;
i) maintaining high standards of quality control, hygiene and health and safety;
j) inspecting stockpiles and ordering supplies;
k) providing petty cash as required;
l) implementing policies;
m) preparing the budget estimates;
n) planning and controlling the use of resources and recruitment;
o) performing related tasks, and
p) enhancing knowledge and coordinating the work performance.

Examples of the occupations classified here: (refer to index; unit group 2712)

2712-01	Food Preparation Executive
2712-02	Kitchen Administrator
2712-03	Food and Beverage Personnel
2712-04	Food and Beverage Executive

SUB-MAJOR 28 SOCIAL AND CULTURAL PROFESSIONALS

Social and Cultural Professionals conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to fields such as librarianship, society and religion, journalism and creative arts.

Occupations in this sub-major group are classified into the following minor groups:

281 LIBRARIANS, ARCHIVISTS AND CURATORS
282 SOCIAL AND RELIGIOUS PROFESSIONALS
283 AUTHORS, JOURNALISTS AND LINGUISTS
284 CREATIVE AND PERFORMING ARTISTS

MINOR GROUP 281 LIBRARIANS, ARCHIVISTS AND CURATORS

Librarians, Archivists and Curators develop and maintain the collections of libraries, archives, museums, art galleries and similar establishments.

Occupations in this minor group are classified into the following unit groups:

2811 ARCHIVISTS AND CURATORS
2812 LIBRARIANS AND RELATED INFORMATION PROFESSIONALS

UNIT GROUP 2811 ARCHIVISTS AND CURATORS

Archivists and Curators collect, appraise and ensure the safekeeping and preservation of the collections of libraries, archives, museums, art galleries and similar establishments. They plan, devise and implement systems for the safekeeping of records and historically valuable documents.

Tasks include:

a) identifying the institutions / individuals in any country as may be necessary to obtain all kinds of archival material relating to Malaysia and managing procurement processing, classification, translation, publishing and reference description preparation of such materials;
b) carrying out management and administrative tasks, planning, coordinating and implementing activities such as museum exhibits, preservation and conservation of ancient objects, research on archaeology, flora and fauna, national culture, offering museology advice and preparing reports on research findings;
c) researching into, appraising, developing, managing and preserving historically significant and valuable documents;
d) directing or carrying out the preparation of indexes, bibliographies, microfilm copies and other reference aids of the collection of materials and making them available to users;
e) researching into the origin, distribution and use of materials and objects of cultural and historical interest;
f) managing, developing and maintaining collections of items of artistic, cultural, scientific or historical significance in museums or art galleries;
g) cataloguing museum and art gallery collections and organising exhibitions;
h) maintaining records;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2811)

2811-01	Archives Officer Grade S41
2811-02	Curator Grade S41
2811-03	Archivist
2811-04	Curator

UNIT GROUP 2812 LIBRARIANS AND RELATED INFORMATION PROFESSIONALS

Librarians and Related Information Professionals collect, select, organise and maintain library collections and other information repositories, organise and control other library services and provide information for users.

Tasks include:

a) carrying out administrative tasks and financial management, human resource management and supervision, maintaining and ensuring the security of information sources and ICT applications in libraries;
b) classifying or supervising classification, indexing, cataloguing, circulation of library materials and maintaining records;
c) selecting and recommending acquisitions of books and other printed materials or audio-visual recordings;
d) assisting inquirers and retrieving information from manual files or computerised databases;
e) supervising the maintenance of books and other materials;
f) managing interlibrary loan systems and information networks;
g) maintaining liaison with other libraries and library associations;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2812)

2812-01	Librarian Grade S41
2812-02	Executive Officer (Library) Grade 41
2812-03	Executive Officer (Library) Grade 9
2812-04	Library Executive

MINOR GROUP 282 SOCIAL AND RELIGIOUS PROFESSIONALS

Social and Religious Professionals conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to philosophy, politics, economics, sociology, anthropology, history, philology, languages, psychology, religious faiths and other social sciences, or they provide social services to meet the needs of individuals and families in a community.

Occupations in this minor group are classified into the following unit groups:

2821 ECONOMISTS
2822 SOCIOLOGISTS, ANTHROPOLOGISTS AND RELATED PROFESSIONALS
2823 PHILOSOPHERS, HISTORIANS AND POLITICAL SCIENTISTS
2824 PSYCHOLOGISTS
2825 SOCIAL WORK AND COUNSELLING PROFESSIONALS
2826 RELIGIOUS PROFESSIONALS

UNIT GROUP 2821 ECONOMISTS

Economists conduct research, monitor data, analyse information and prepare reports, and resolve economic and business problems. They develop models for analysis and understanding and make predictions of future economic circumstances and trends.

Tasks include:
a) compiling, analysing and interpreting economic and statistical data;
b) preparing reports on research findings;
c) advising on economic policy and course of action to be followed in the light of analyses of past, present and projected economic factors;
d) performing related tasks; and
e) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2821)

2821-01	Economic Affairs Officer Grade E41
2821-02	Executive Officer (Economic) Grade 9
2821-03	Econometrician
2821-04	Economist

UNIT GROUP 2822 SOCIOLOGISTS, ANTHROPOLOGISTS AND RELATED PROFESSIONALS

Sociologists, Anthropologists and Related Professionals investigate and describe the social structure of societies, the origin and evolution of humanity, and the interdependence between environmental conditions and human activities. They provide advice on their findings in the formulation of economic and social policies.

Tasks include:
a) planning research programmes including designing studies, collection and analysis of information and its assessment, on the national development policies and programmes;
b) conducting research on the origin, development, structure, social patterns, organisations and inter-relationships of human society;
c) tracing the origin and evolution of humanity through the study of changing characteristics and cultural and social institutions;
d) tracing the development of humanity through relics such as dwellings, temples, tools, pottery, coins, weapons or sculptures;
e) performing related tasks; and
f) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2822)

2822-01	Sociologist
2822-02	Anthropologist
2822-03	Archaeologist
2822-04	Geographer

UNIT GROUP 2823 PHILOSOPHERS, HISTORIANS AND POLITICAL SCIENTISTS

Philosophers, Historians and Political Scientists conduct research and describe past events and activities including the development of social and economic structures and institutions, and political movements.

Tasks include:

a) researching, specifically through reasoning, into the general causes, principles and meaning of the world, human actions, experience and existence, and interpreting and developing philosophical concepts and theories;
b) consulting and comparing primary sources such as original contemporary records of past events and secondary sources such as archaeological or anthropological findings;
c) extracting relevant material, checking its authenticity and researching into and describing the history of a particular period, country or region, or a particular facet (for example economic, social or political) of its history;
d) conducting research in such fields as political philosophy, or theory and practice of systems, institutions or past and current political situations;
e) observing contemporary political institutions and collecting data on them from various sources including interviews with government and political party officials and other relevant persons;
f) presenting findings and conclusions in publications for use by government, political parties or other organisations and interested persons;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2823)

2823-01	Philosopher
2823-02	Political Philosopher
2823-03	Historian
2823-04	Political Scientist

UNIT GROUP 2824 PSYCHOLOGISTS

Psychologists research into and study human mental processes and behaviour and apply this knowledge to promote personal, social, educational or occupational adjustment and development.

Tasks include:

a) planning, implementing and coordinating activities related to psychology / clinical psychology / counselling for the client;
b) advising on, planning and carrying out tests to measure mental, physical and other characteristics such as intelligence, abilities, attitudes and potential, and interpreting and evaluating results;
c) analysing heredity, social, occupational effects and those caused by other factors on individual thought and behaviour;
d) holding counselling sessions or therapeutic treatment and providing follow-up services;
e) maintaining communication with family members, educational authorities or employers and recommending possible solutions to and treatment of problems;
f) studying psychological factors in the diagnosis, treatment and prevention of mental illnesses and emotional or personality disorders, and conferring with related professionals;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2824)

2824-01	Psychology Officer Grade S41
2824-02	Executive Officer (Psychology) Grade 41
2824-03	Psychologists
2824-04	Clinical Psychologist

UNIT GROUP 2825 SOCIAL WORK AND COUNSELLING PROFESSIONALS

Social Work and Counselling Professionals provide advice and guidance to individuals, families, groups, communities and organisations in response to social and personal difficulties. They assist clients to develop skills, access the resources and support services needed to respond to issues arising from unemployment, poverty, disability, addiction, criminal and delinquent behaviour, marital and other problems.

Tasks include:

a) planning, implementing and coordinating activities related to psychology / clinical psychology / counselling for the client;
b) helping individuals and families with personal and social problems;
c) collecting information relevant to clients' needs and advising them on their rights and obligations;
d) analysing the clients' situation and presenting alternative approaches to resolving problems;
e) preparing and compiling case records or reports for court and other legal proceedings;
f) providing guidance to at-risk youth and rehabilitating troubled youth by organising and supervising social, educational and recreational activities in youth clubs, community centres and similar organisations;
g) helping physically or mentally handicapped persons to obtain adequate treatment and improve their ability to function in society;
h) planning, organising or providing home-help services;
i) monitoring the progress of clients;
j) formulating policies, plan programmes and activities related to youth and sports activities at the Ministry/department level. Includes providing financial assistance, providing expert advice and ongoing supervision in developing youth and sports programmes;
k) helping ensuring the implementation of policies for rehabilitation programs at institution and community;
l) performing related tasks; and
m) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2825)

2825-01	Community Development Officer, Grade S41
2825-02	Social Worker, Professional
2825-03	Counsellor
2825-04	Marriage Counselor

UNIT GROUP 2826 RELIGIOUS PROFESSIONALS

Religious Professionals function as perpetuators of sacred traditions, practices and beliefs. They lead religious ceremonies, provide spiritual and moral guidance and perform other functions associated with the practice of a religion.

Tasks include:

a) being responsible to the Mufti in carrying out research and preparation to enable the Mufti to issue a fatwa on the effectiveness of a planned programme;
b) perpetuating sacred traditions, practices and beliefs;
c) leading religious rites and ceremonies;
d) undertaking various administrative and social duties including being in committees and attending meetings of religious organisations;
e) providing spiritual and moral guidance in accordance with the religion professed;
f) propagating religious doctrines;
g) preparing and delivering religious sermons and preaching;

h) conducting religious classes and leading prayers and supervising discussions, groups, retreats and seminars;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2826)

2826-01	Islamic Affairs Officer Grade S41
2826-02	Religious Officer
2826-03	*Mufti*
2826-04	*Imam*

MINOR GROUP 283 AUTHORS, JOURNALISTS AND LINGUISTS

Authors, Journalists and Linguists conceive and create literary works, interpret and communicate news and public affairs through the media and translate or interpret from one language into another.

Occupations in this minor group are classified into the following unit groups:

2831 AUTHORS AND RELATED WRITERS
2832 JOURNALISTS
2833 TRANSLATORS, INTERPRETERS AND OTHER LINGUISTS

UNIT GROUP 2831 AUTHORS AND RELATED WRITERS

Authors and Related Writers plan, research and write books, scripts, original stories, plays, essays, speeches, manuals, specifications and other non-journalistic articles (excluding material for newspapers, magazines and other periodicals) for publication or presentation.

Tasks include:
a) writing literary works for publication or dramatic performance;
b) writing scripts and continuities and preparing programmes for stage, film, radio and television productions;
c) appraising and writing about literary, musical and other works of art and artistic performances;
d) writing advertising copy promoting a particular product or service;
e) selecting, assembling and preparing publicity materials about business or other organisations for issue through the press, radio, television and other media;
f) designing and writing brochures, handbooks and similar technical publications;
g) responsible for information services including social library management publishing and documentation systems;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2831)

2831-01	Author
2831-02	Biographer
2831-03	Novelist
2831-04	Playwright

UNIT GROUP 2832 JOURNALISTS

Journalists research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media.

Tasks include:
a) issuing news reports every day from procured sources for the customer to be made available to the community;
b) collecting local, national and international news through interviews, investigation and observation, attending public events, seeking out records, reviewing written work, attending film screenings and stage performances;
c) collecting, reporting and commenting on news and current affairs for publication in newspapers and periodicals or for broadcast by radio or television;
d) interviewing politicians and other public figures at press conferences and on other occasions, including individual interviews recorded for radio or television;

e) writing editorials and selecting, revising, arranging and editing submitted articles for publication and broadcasting;
f) writing advertising copy promoting a particular product or service;
g) selecting, assembling and preparing publicity materials about business or other organisations for issue through the press, radio, television and other media;
h) writing critical reviews of literary, musical and other artistic works based on knowledge, judgement and experience for newspapers, television, radio and other media;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2832)

2832-01	News Reporter
2832-02	Columnist
2832-03	Journalist
2832-04	Political Editor

UNIT GROUP 2833 TRANSLATORS, INTERPRETERS AND OTHER LINGUISTS

Translators, Interpreters and Other Linguists translate or interpret from one language into another and study the origin, development and structure of languages.

Tasks include:
a) studying the relationships between ancient parent languages and modern language groups, tracing the origin and evolution of words, grammar and language forms and presenting findings;
b) advising on or preparing language classification systems, grammars, dictionaries and similar matters;
c) translating from one language into another and ensuring that the correct meaning of the original is retained, that legal, technical or scientific texts are correctly rendered and that the phraseology, terminology, spirit and style are conveyed as far as possible;
d) interpreting from one language into another, in particular at conferences, meetings and similar occasions, and ensuring that the correct meaning and, as far as possible, the spirit of the original are transmitted;
e) providing simultaneous interpreting at meetings of the Senate and House of Representatives, and editing the questions of the Senate;
f) specialising in at least two or more languages;
g) responsible for managing and implementing projects, programs and development activities and the development of the Malay language as the national language and official language;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2833)

2833-01	Simultaneous Interpreters Grade N41
2833-02	Translator
2833-03	Interpreter
2833-04	Philologist

MINOR GROUP 284 CREATIVE AND PERFORMING ARTISTS

Creative and Performing Artists conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to the arts and performance.

Occupations in this minor group are classified into the following unit groups:

2841 VISUAL ARTISTS
2842 MUSICIANS, SINGERS AND COMPOSERS
2843 DANCERS AND CHOREOGRAPHERS
2844 FILM, STAGE AND RELATED DIRECTORS AND PRODUCERS
2845 ACTORS
2846 ANNOUNCERS ON RADIO, TELEVISION AND OTHER MEDIA
2847 CLOWNS, MAGICIANS, ACROBATS AND RELATED PROFESSIONALS
2848 ANIMAL KEEPERS AND TRAINERS
2849 CREATIVE AND PERFORMING ARTISTS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2841 VISUAL ARTISTS

Visual Artists create and execute artistic works by sculpting, painting, drawing, cartooning, engraving or using related techniques.

Tasks include:

a) planning, developing and providing services in the form of teaching, talks, seminars, courses, meetings, demonstrations and other activities;
b) preserving and developing ideas, designs and styles in literary works, writings and sculptures;
c) creating artistic designs or abstract three-dimensional or relief forms by shaping and combining materials such as wood, wax, stone, clay or metal;
d) creating representational or abstract drawings and paintings using pencil, ink, oil paints, watercolours or through the application of other techniques;
e) creating drawings and engraving or etching on metal, wood or other materials;
f) creating cartoons to depict persons and events, often in caricature;
g) creating and executing designs and illustrations for books, magazines, advertising and similar purposes;
h) restoring damaged, soiled and faded paintings and other art objects;
i) producing miniatures;
j) making decorative tattoos on customers;
k) performing related tasks; and
l) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2841)

2841-01	Sculptor
2841-02	Cartoonist
2841-03	Painting Restorer
2841-04	Fine Art Engraver-Etcher

UNIT GROUP 2842 MUSICIANS, SINGERS AND COMPOSERS

Musicians, Singers and Composers write, arrange, compose and adapt musical works and conduct or participate in performances.

Tasks include:

a) composing songs, playing a musical instrument for training and performances, being a member of an orchestra and leading the orchestra;
b) auditioning and selecting musicians and singers and selecting music for a performance;
c) conceiving and writing musical compositions;
d) adapting or arranging music for instrumental groups, instruments or occasions;
e) conducting instrumental or vocal groups;
f) playing one or more musical instruments as a soloist or as a member of an orchestra;
g) singing as a soloist or member of a vocal group;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2842)

2842-01	Musician Grade B41
2842-02	Musicologist
2842-03	Instrumentalist
2842-04	Adiguru - Music

UNIT GROUP 2843 DANCERS AND CHOREOGRAPHERS

Dancers and Choreographers conceive and create or perform dances.

Tasks include:

a) conceiving and creating dances which often convey a story, theme or idea by a sequence of steps, movements and gestures;
b) arranging and directing dance performances for stage or film productions;
c) performing dances as a soloist, with a partner or as a member of a dancing group;
d) performing related tasks; and
e) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2843)

2843-01	Dancer
2843-02	Dancer, Night Club
2843-03	Choreographer
2843-04	Dance Director

UNIT GROUP 2844 FILM, STAGE AND RELATED DIRECTORS AND PRODUCERS

Film, Stage and Related Directors and Producers oversee, control and direct the technical and artistic aspects in film, television or radio productions or stage shows.

Tasks include:

a) planning, implementing and preparing reports on performances in addition to managing performances including the preparation of the format and script of performances;
b) planning, organising and carrying out cultural and theatrical activities;
c) reviewing the script and directing actors to play their parts convincingly and directing all aspects of dramatic production on stage, television, radio or in film including casting of actors and making decisions on costume, set design, sound effects or lighting;
d) negotiating royalties;
e) creating, planning, writing scripts for recording, videotaping and editing programmes;
f) supervising the positioning of props, lighting and sound equipment;
g) viewing processed films or video tapes for the purpose of evaluation, selecting scenes and determining the scenes which need to be re-shot;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2844)

2844-01	Producer Grade B41
2844-02	Animation Producer
2844-03	Multimedia Producer
2844-04	Motion Picture Director

UNIT GROUP 2845 ACTORS

Actor portray roles in films, television or radio productions and stage shows.

Tasks include:

a) studying scripts to determine artistic interpretation;
b) learning lines and cues and playing parts in dramatic productions on stage, television, radio or in films;
c) narrating stories or reading literary works aloud to educate or entertain listeners;
d) viewing processed films or video tapes to evaluate and select scenes and determine the scenes which need to be re-shot;
e) performing related tasks; and
f) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2845)

2845-01	Actor
2845-02	Impersonator
2845-03	Story Teller
2845-04	Mime Artist

UNIT GROUP 2846 ANNOUNCERS ON RADIO, TELEVISION AND OTHER MEDIA

Announcers on Radio, Television and Other Media read news bulletins, conduct interviews and make other announcements on radio, television or in theatres and other establishments.

Tasks include:

a) reading news bulletins, making other announcements and providing commentary for sports and other events on radio or television;
b) introducing performing artists or persons being interviewed, and making related announcements on radio and television or in theatres, clubs and other establishments;
c) interviewing the public, especially on radio and television;
d) presenting comments on sports, politics, social or economic matters;
e) researching, investigating and compiling stories and programmes;
f) monitoring incoming information and liaising with network editors, journalists, media producers and directors, graphic designers, other programme departments and news sources;
g) selecting and organising materials for broadcast;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2846)

2846-01	Disk-jockey (DJ)
2846-02	Radio Announcer
2846-03	Television Announcer
2846-04	Master of Ceremonies

UNIT GROUP 2847 CLOWNS, MAGICIANS, ACROBATS AND RELATED PROFESSIONALS

Clowns, Magicians, Acrobats and Related Professionals entertain audiences in circuses and other places by performing a variety of acts.

Tasks include:

a) performing amusing antics and telling funny stories to amuse audiences;
b) performing feats requiring bodily contortions;
c) performing tricks of illusion and sleight of hand, and hypnotism;
d) performing difficult and spectacular acrobatics, gymnastic or juggling feats;
e) training and performing with animals;
f) performing related tasks; and
g) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2847)

2847-01	Acrobat
2847-02	Contortionist
2847-03	Magician
2847-04	Clown

UNIT GROUP 2848 ANIMAL KEEPERS AND TRAINERS

Animal Keepers and Trainers care for, train and perform with animals in zoos, bird and aquatic parks.

Tasks include:

a) caring for animals in zoos, bird and aquatic parks;
b) training and performing with animals;
c) performing related tasks; and
d) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2848)

2848-01	Trainer in Zoological, Bird and Aquatic Parks
2848-02	Trainer in Crocodile Farm
2848-03	Dog Trainer
2848-04	Horse Trainer

UNIT GROUP 2849 CREATIVE AND PERFORMING ARTISTS NOT ELSEWHERE CLASSIFIED

This unit group covers Creative and Performing Artists Not Elsewhere Classified in Minor Group 284: Creative and Performing Artists. As an example, this group include Cultural Officer Gred B41.

Tasks Include:

a) responsible for cultural development and artistic;
b) taking photographs, editing, preparing photo captions and sending photographs of formal and informal activities for reference and retention;
c) making coverage for films / videos with or without sound, filming a special programme, providing equipment, maintaining hygiene of studio and darkroom and equipment safety inside and outside the department;
d) carrying out related tasks; and
e) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2849)

2849-01	Cultural Officer Grade B41
2849-02	Cultural Officer Grade B43
2849-03	Cultural Officer Grade B47
2849-04	Cultural Officer Grade B51

SUB-MAJOR 29 REGULATORY GOVERNMENT PROFESSIONALS

Regulatory Government Professionals administer, enforce or apply relevant government regulations relating to national borders, taxes, social benefits, and issue or examine applications for licences or authorisations in connection with travel, import and export of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

Occupations in this sub-major group are classified into the following minor groups:

291 REGULATORY BODY PROFESSIONALS

MINOR GROUP 291 REGULATORY BODY PROFESSIONALS

Regulatory Body Professionals administer, enforce or apply relevant government regulations relating to national borders, taxes, social benefits, and issue or examine applications for licences or authorisations in connection with travel, import and export of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

Occupations in this minor group are classified into the following unit groups:

2911 PROFESSIONAL CUSTOMS AND BORDER INSPECTORS
2912 PROFESIONAL TAXATION AND EXCISE OFFICIALS
2913 PROFESSIONAL GOVERNMENT SOCIAL BENEFIT OFFICIALS
2914 PROFESSIONAL GOVERNMENT LICENSING OFFICIALS
2915 PROFESSIONALS POLICE OFFICIALS
2916 PROFESSIONALS CIVIL OFFICIALS
2919 REGULATORY GOVERNMENT PROFESSIONALS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 2911 PROFESSIONAL CUSTOMS AND BORDER INSPECTORS

Professional Customs and Border Inspectors check persons and vehicles crossing national borders to administer and enforce relevant government regulations and laws.

Tasks include:

a) classifying goods in accordance with the tariffs, making price assessment for the collection of customs duty / sales tax, processing and approving the importation / exportation of dutiable goods subject to prohibitions of imports / exports at the entrance / exit points, tax-free zones and licensed warehouses;
b) processing licence applications for excise warehouses, licensed warehouses and licensed manufacturing warehouses;
c) auditing accounts of companies licensed under the Sales Tax Act and Service Tax Act for collection of sales / service tax;

d) processing applications for exemption from sales tax, checking the stock and the use of dutiable goods of companies with customs duty exemption and processing tax remission applications;
e) supervising passenger screening duties and conducting investigation into companies / individuals committing fraud / smuggling and performing other enforcement duties;
f) detaining persons found to be in violation of customs or immigration laws and arranging for legal action such as deportation;
g) checking, approving and issuing travel passes and documents;
h) searching for and seizing contraband or undeclared merchandise including through vehicles, aircraft or boats;
i) inspecting cargo, baggage and personal articles entering or leaving the country; and
j) investigating applications for duty refunds and petitions for remission or mitigation of penalties when warranted.

Examples of the occupations classified here: (refer to index; unit group 2911)

2911-01	Superintendent of Custom Grade WK41
2911-02	Immigration Superintendent Grade KP41
2911-03	Immigration Consultant

UNIT GROUP 2912 PROFESIONAL TAXATION AND EXCISE OFFICIALS

Professional Taxation and Excise Officials examine tax returns, bills of sale and other documents to determine the type and amount of taxes, duties and other types of fees to be paid by individuals or businesses, and refer exceptional or important cases to accountants, senior government officials or managers.

Tasks include:
a) providing advice on taxation matters to corporations, partnerships, organisations and individuals;
b) giving expert advice on laws and regulations pertaining to determination and payment of taxes, duties and other government charges to organisations, industries and individuals;
c) examining tax returns, bills of sale and other relevant documents to determine the type and amount of taxes, and employment as well as other types of fees to be paid;
d) investigating tax filing statements and accounting records, organisational systems and internal controls to ensure compliance with tax laws and regulations;
e) performing administrative tasks related to the discovery of documents and maintaining records and reports on the action taken in cases;
f) reviewing in detail business accounts to ensure that the tax law has been applied correctly;
g) applying tax laws on establishments, partnerships, organisations and individuals;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2912)

2912-01	Executive Officer (Appraising) Grade 41
2912-02	Appraising Executive Officer
2912-03	Valuation Officer
2912-04	Excise Officer

UNIT GROUP 2913 PROFESSIONAL GOVERNMENT SOCIAL BENEFIT OFFICIALS

Professional Government Social Benefit Officials examine applications for government, financial or service programmes to determine eligibility and amount of benefit or appropriate services, referring exceptional or important cases to senior government officials or managers.

Tasks include:
a) interpreting and explaining related procedures, regulations and laws to social organisations;
b) providing advice to individuals and organisations on government legislation, rules and regulations relating to government benefit programmes, as well as the determination and distribution of payments;
c) examining applications and other relevant documents to determine the type and amount of benefits that individuals are eligible to receive;
d) assessing documentation and interviewing recipients to ensure eligibility for benefits or services;

e) performing related administrative tasks to maintain customer records and preparing reports on eligibility, referral decisions, termination of benefits and abuse or fraud;
f) enforcing procedures, regulations and laws;
g) performing related tasks; and
h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2913)

2913-01	Social Benefits Officer
2913-02	Social Security Claims Officer
2913-03	Executive Officer (PERKESO) Grade 23

UNIT GROUP 2914 PROFESSIONAL GOVERNMENT LICENSING OFFICIALS

Professional Government Licensing Officials examine applications for licences to export or import goods, set up businesses, build houses or other structures, or to determine eligibility of applications for issuing licences or passports, and identify specific conditions or restrictions to be attached to licences issued, refer exceptional or important cases to senior government officials or managers.

Tasks include:
a) interpreting and explaining related procedures, regulations and laws;
b) advising individuals about the law and government regulations on the types of licences required and the conditions attached to the licences, and on the rights and obligations of the public;
c) examining applications and related documents and determining whether the licences should be granted and the conditions to be attached;
d) examining applications and approving the issue of passports;
e) carrying out administrative tasks related to the application process, document activities, evaluation and determination, and for preparing correspondence to inform applicants of the licensing decision;
f) administering and carrying out the necessary tests on licence applicants;
g) enforcing procedures, regulations and laws;
h) performing related tasks; and
i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2914)

2914-01	Enforcement Officer Grade KP41
2914-02	Executive Officer (Enforcement) Grade L5
2914-03	Licensing Officer
2914-04	Passport Issuing Officer

UNIT GROUP 2915 PROFESSIONAL POLICE OFFICIALS

Professional Police Officials investigate facts, conduct, supervise and coordinate investigations to prevent crimes or solve criminal cases.

Tasks include:
a) performing administrative duties, preventing crime, investigating, apprehending and charging suspects, controlling traffic, gathering intelligence, preparing equipment and communications, preserving public security on land, sea and in the air;
b) analysing completed police reports to determine the necessary additional information and investigative work;
c) obtaining facts or statements from complaints, witnesses and accused persons and recording interviews using a recording device;
d) obtaining summary of an accident from the officer in charge at the scene, taking care to avoid disturbing evidence;
e) examining record and files to find the personal data of suspects;
f) preparing and serving search and arrest warrants;
g) summoning medical assistance for injured individuals and alerting medical personnel to take statements from them;
h) providing information to lab personnel concerning the source of an item of evidence and the test to be performed;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2915)

2915-01	Senior Police Officer Grade YA 13

UNIT GROUP 2916 PROFESSIONAL CIVIL DEFENCE OFFICIALS

Professional Civil Defence Officials supervise and investigate civil cases by enforcing procedures and regulations.

Tasks include:

a) managing administrative and management matters at the state level, including managing Civil Defence Movement Training;
b) interpreting and explaining related procedures, regulations and laws;
c) investigating fraud;
d) enforcing procedures, regulations and laws;
e) formulating the labour policy, administration of law and labour standards, industrial harmony and union affairs, monitoring and enforcing relevant acts, giving advice and labour education, and promoting the increased welfare and interest of the industrial community;
f) managing duties related to security covering conducting training, giving lectures, conducting safety inspections, investigating security breaches and leaks of official secrets, determining the security personnel service system and system security personal security control system;
g) monitoring and ensuring fire fighting and rescue operations comply with the set standards and procedures;
h) implementing the policy in prison security management, management of detention and execution of sentences, rehabilitation programmes and treatment, and management of the treatment of prisoners;
i) performing related tasks; and
j) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2916)

2916-01	Civil Defence Officer Grade KP41
2916-02	Civil Defence Officer
2916-03	Industrial Relations Officer Grade S41
2916-04	Security Officer Grade KP41

UNIT GROUP 2919 REGULATORY GOVERNMENT PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Regulatory Government Professionals Not Elsewhere Classified in Minor Group 291: Regulatory Government Professionals. As an example, this group include Control Room Officer.

Tasks include:

a) enforcing procedures, regulations and laws;
b) performing related tasks; and
c) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: (refer to index; unit group 2917)

2919-01	Control Room Officer
2919-02	Registration Officers Grade KP41
2919-03	Investigation Officer Grade P41
2919-04	Investigation Officer Grade P43

MAJOR GROUP 3

TECHNICIANS AND ASSOCIATE PROFESSIONALS

TECHNICIANS AND ASSOCIATE PROFESSIONALS

3

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

31 SCIENCE AND ENGINEERING ASSOCIATE PROFESSIONALS

311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS

3111 CHEMICAL AND PHYSICAL SCIENCE TECHNICIANS
3112 CIVIL ENGINEERING TECHNICIANS
3113 ELECTRICAL ENGINEERING TECHNICIANS
3114 ELECTRONICS ENGINEERING TECHNICIANS
3115 MECHANICAL ENGINEERING TECHNICIANS
3116 CHEMICAL ENGINEERING TECHNICIANS
3117 MINING AND METALLURGICAL TECHNICIANS
3118 DRAUGHTSPERSONS AND SURVEYING TECHNICIANS
3119 INDUSTRIAL AND PRODUCTION TECHNICIANS

312 MINING, MANUFACTURING AND CONSTRUCTION SUPERVISORS

3121 MINING SUPERVISORS
3122 MANUFACTURING SUPERVISORS
3123 CONSTRUCTION SUPERVISORS
3129 OTHER SUPERVISORS NOT ELSEWHERE CLASSIFIED

313 PROCESS CONTROL TECHNICIANS

3131 POWER PRODUCTION PLANT OPERATORS
3132 INCINERATOR AND WATER TREATMENT PLANT OPERATORS
3133 CHEMICAL PROCESSING PLANT CONTROLLERS
3134 PETROLEUM AND NATURAL GAS REFINING PLANT OPERATORS
3135 METAL PRODUCTION PROCESS CONTROLLERS
3139 PROCESS CONTROL TECHNICIANS NOT ELSEWHERE CLASSIFIED

314 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS

3141 LIFE SCIENCE TECHNICIANS (EXCLUDING MEDICAL)
3142 AGRICULTURAL AND LIVESTOCK TECHNICIANS
3143 FORESTRY TECHNICIANS
3144 FISHERY TECHNICIANS

315 SHIP, AIRCRAFT AND TRAIN TECHNICIANS

3151 AIRCRAFT TECHNICIANS
3152 SHIP/ MARINE TECHNICIANS
3153 TRAIN/ LOCOMOTIVE TECHNICIANS
3154 MOTOR VEHICLE TECHNICIANS
3159 TRANSPORT TECHNICIANS NOT ELSEWHERE CLASSIFIED

316 NUCLEAR SCIENCE ASSOCIATE PROFESSIONALS

3161 NUCLEAR RESEARCH AND DEVELOPMENT ASSOCIATE PROFESSIONALS

32 HEALTH ASSOCIATE PROFESSIONALS

321 MEDICAL AND PHARMACEUTICAL TECHNICIANS

3211 MEDICAL IMAGING AND THERAPEUTIC EQUIPMENT TECHNICIANS
3212 MEDICAL AND PATHOLOGY LABORATORY TECHNICIANS

3213 PHARMACEUTICAL TECHNICIANS AND ASSISTANTS
3214 MEDICAL AND DENTAL PROSTHETIC TECHNICIANS
3215 ORTHOTIC AND PROSTHETIC TECHNICIANS

322 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS

3221 NURSING ASSOCIATE PROFESSIONALS (EXCEPT DENTAL)
3222 MIDWIFERY ASSOCIATE PROFESSIONALS

323 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS

3231 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS

324 VETERINARY TECHNICIANS AND ASSISTANTS

3241 VETERINARY TECHNICIANS AND ASSISTANTS

325 OTHER HEALTH ASSOCIATE PROFESSIONALS

3251 DENTAL ASSISTANTS AND THERAPISTS
3252 MEDICAL RECORD AND HEALTH INFORMATION TECHNICIANS
3253 COMMUNITY HEALTH WORKERS
3254 DISPENSING OPTICIANS
3255 PHYSIOTHERAPY TECHNICIANS AND ASSISTANTS
3256 MEDICAL ASSISTANTS
3257 ENVIRONMENTAL AND OCCUPATIONAL HEALTH INSPECTORS AND ASSOCIATES
3258 AMBULANCE ASSISTANTS
3259 HEALTH ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

33 BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS

331 FINANCIAL AND MATHEMATICAL ASSOCIATE PROFESSIONALS

3311 SECURITIES AND FINANCE DEALERS AND BROKERS
3312 CREDIT AND LOAN OFFICERS
3313 ACCOUNTING AND AUDITING ASSOCIATE PROFESSIONALS
3314 STATISTICAL, MATHEMATICAL AND ACTUARIAL ASSOCIATE PROFESSIONALS
3315 VALUERS AND LOSS ASSESSORS

332 SALES AND PURCHASING AGENTS AND BROKERS

3321 INSURANCE REPRESENTATIVES
3322 COMMERCIAL SALES REPRESENTATIVES
3323 BUYERS
3324 TRADE BROKERS

333 BUSINESS SERVICES AGENTS

3331 CLEARING AND FORWARDING AGENTS
3332 CONFERENCE AND EVENT AGENTS
3333 EMPLOYMENT AGENTS AND CONTRACTORS
3334 REAL ESTATE AND PROPERTY AGENTS
3339 BUSINESS SERVICES AGENTS NOT ELSEWHERE CLASSIFIED

334 ADMINISTRATIVE AND SPECIALISED ASSOCIATE PROFESSIONALS

3341 ADMINISTRATIVE ASSOCIATE PROFESSIONALS
3342 LEGAL SECRETARIES
3343 ADMINISTRATIVE AND EXECUTIVE SECRETARIES
3344 MEDICAL SECRETARIES

34 LEGAL ASSOCIATE PROFESSIONALS

341 LEGAL ASSOCIATE PROFESSIONALS

3411 LEGAL AND RELATED ASSOCIATE PROFESSIONALS

35 INFORMATION AND COMMUNICATIONS TECHNICIANS

351 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION AND USER SUPPORT TECHNICIANS

3511 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION TECHNICIANS
3512 INFORMATION AND COMMUNICATIONS TECHNOLOGY USER SUPPORT TECHNICIANS
3513 COMPUTER NETWORK AND SYSTEMS TECHNICIANS
3514 WEB TECHNICIANS

352 TELECOMMUNICATIONS AND BROADCASTING TECHNICIANS

3521 BROADCASTING AND AUDIO-VISUAL TECHNICIANS
3522 TELECOMMUNICATIONS ENGINEERING TECHNICIANS

36 SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS

361 SOCIAL AND RELIGIOUS ASSOCIATE PROFESSIONALS

3611 SOCIAL WORK ASSOCIATE PROFESSIONALS
3612 RELIGIOUS ASSOCIATE PROFESSIONALS

362 SPORTS, SELF DEFENCE AND FITNESS ASSOCIATE PROFESSIONALS

3621 ATHLETES AND SPORTS PLAYERS
3622 SPORTS COACHES, INSTRUCTORS AND OFFICIALS
3623 FITNESS AND RECREATION INSTRUCTORS AND PROGRAMME LEADERS

363 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS

3631 PHOTOGRAPHERS
3632 INTERIOR DESIGNERS AND DECORATORS
3633 GALLERY, MUSEUM AND LIBRARY ASSOCIATE PROFESSIONALS
3634 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS
3639 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

364 CULINARY ASSOCIATE PROFESSIONALS

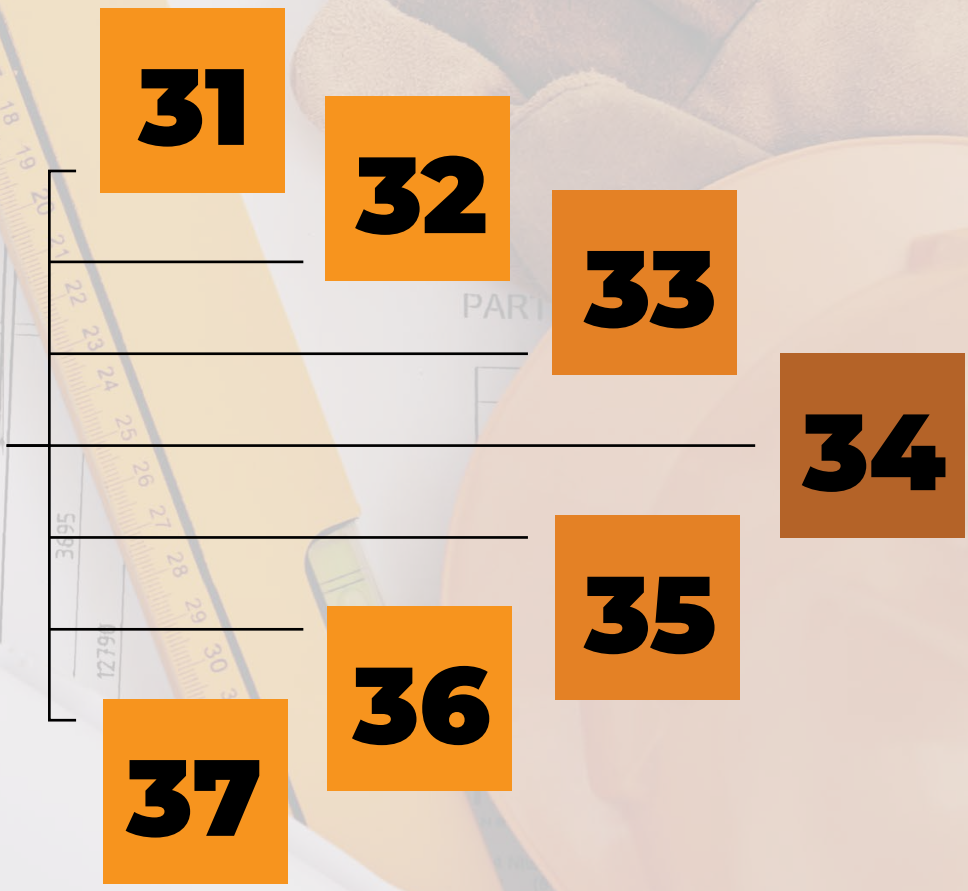
3641 CHEFS

37 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

371 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

3711 CUSTOMS AND BORDER INSPECTOR ASSOCIATE PROFESSIONALS
3712 TAXATION AND EXCISE OFFICIAL ASSOCIATE PROFESSIONALS
3713 GOVERNMENT SOCIAL BENEFIT OFFICIAL ASSOCIATE PROFESSIONALS
3714 GOVERNMENT LICENSING OFFICIAL ASSOCIATE PROFESSIONALS
3715 POLICE OFFICERS
3716 CIVIL DEFENCE ASSOCIATE PROFESSIONALS
3719 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

TECHNICIANS AND ASSOCIATE PROFESSIONALS



SUB-MAJOR GROUP

31 SCIENCE AND ENGINEERING ASSOCIATE PROFESSIONALS
32 HEALTH ASSOCIATE PROFESSIONALS
33 BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS
34 LEGAL ASSOCIATE PROFESSIONALS
35 INFORMATION AND COMMUNICATIONS TECHNICIANS
36 SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS
37 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

TECHNICIANS AND ASSOCIATE PROFESSIONALS

Description	**Perform technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations**
Skill Level	**Most occupations in this major group require skills at the third level**

Occupations in this major group are classified into the following sub-major groups:

31 SCIENCE AND ENGINEERING ASSOCIATE PROFESSIONALS
32 HEALTH ASSOCIATE PROFESSIONALS
33 BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS
34 LEGAL ASSOCIATE PROFESSIONALS
35 INFORMATION AND COMMUNICATIONS TECHNICIANS
36 SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS
37 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

SUB-MAJOR 31 SCIENCE AND ENGINEERING ASSOCIATE PROFESSIONALS

Science and Engineering Associate Professionals perform technical tasks connected with research and the application of concepts and operational methods in the field of physical science as well as computing and engineering, or they control and operate technical equipment to investigate the aspect of security in the manufacturing process or other processes and products.

Occupations in this sub-major group are classified into the following minor groups:

311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS
312 MINING, MANUFACTURING AND CONSTRUCTION SUPERVISORS
313 PROCESS CONTROL TECHNICIANS
314 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS
315 SHIP, AIRCRAFT AND TRAIN TECHNICIANS
316 NUCLEAR SCIENCE ASSOCIATE PROFESSIONALS

MINOR GROUP 311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS

Physical and Engineering Science Technicians perform technical tasks related to research and the practical application of concepts, principles and operational methods connected with physical sciences including such areas as engineering, technical drawing or economic efficiency of production processes.

Occupations in this minor group are classified into the following unit groups:

3111 CHEMICAL AND PHYSICAL SCIENCE TECHNICIANS
3112 CIVIL ENGINEERING TECHNICIANS
3113 ELECTRICAL ENGINEERING TECHNICIANS
3114 ELECTRONICS ENGINEERING TECHNICIANS
3115 MECHANICAL ENGINEERING TECHNICIANS
3116 CHEMICAL ENGINEERING TECHNICIANS
3117 MINING AND METALLURGICAL TECHNICIANS
3118 DRAUGHTSPERSONS AND SURVEYING TECHNICIANS
3119 INDUSTRIAL AND PRODUCTION TECHNICIANS

UNIT GROUP 3111 CHEMICAL AND PHYSICAL SCIENCE TECHNICIANS

Chemical and Physical Science Technicians perform technical tasks to aid in research in chemistry, physics, geology, geophysics, meteorology and astronomy, and in the development of industrial, medical, military and other practical applications of research results.

Tasks include:

a) ensuring that all weather measurement sensors are operational and that all data sent out is received properly, and providing basic information for public needs;
b) conducting chemical or microbiological analysis of routine samples, assisting in maintenance of analysis tools, preparation of reagent stock and carrying out work as directed by superiors;
c) gathering samples and preparing materials and equipment for experiments, tests and analyses;
d) making observations, recording, coding weather conditions, sending weather reports and maintaining weather equipment;
e) making observations, calculations/ measurements, recording and plotting information and assisting in preparation of technical reports and documents for publication;
f) applying technical knowledge in order to identify and solve problems arising in the course of work;
g) supervising or maintaining and repairing research equipment;
h) assisting in intensifying departmental activities through services in mineral, geoscience and geoscience information so as to create mineral commodities and quality geoscience development for national development;
i) performing tasks related to the weather application, recording and transmitting weather reports based on the standards of the International Civil Aviation Organisation (ICAO) and the World Meteorological Organisation (WMO);
j) collecting and testing earth and water samples, and analysing data in collaboration with geologists or geophysicists;
k) performing related tasks; and
l) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3111)

3111-01	Laboratory Assistant Grade C19
3111-02	Research Assistant Grade Q19
3111-03	Film Laboratory Assistant Grade C19
3111-04	Physics Technician

UNIT GROUP 3112 CIVIL ENGINEERING TECHNICIANS

Civil Engineering Technicians perform technical tasks in civil engineering research, design, construction, operation, maintenance and repair of buildings and other structures such as water supply and wastewater treatment systems, bridges, roads, dams and airports.

Tasks include:

a) monitoring and providing construction work at the construction site, giving the estimated expenditure for the maintenance of buildings and roads, including overseeing the maintenance work;
b) performing or assisting in field and laboratory tests of soils and construction materials;
c) providing technical assistance connected with the construction of buildings and other structures, and with surveys or the preparation of survey reports;
d) ensuring compliance with design specifications, relevant legislation and regulations, and maintenance of prescribed standards of materials and work;
e) applying technical knowledge related to building and civil engineering principles and practices in order to identify and solve problems arising;
f) assisting with the preparation of estimates of quantities and costs of materials and labour required for projects according to the specifications given;
g) organising maintenance and repairs;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3112)

3112-01	Industrial Instrument Technician
3112-02	Civil Engineering Technician
3112-03	Civil Engineering Assistant
3112-04	Civil Engineering Estimator

UNIT GROUP 3113 ELECTRICAL ENGINEERING TECHNICIANS

Electrical Engineering Technicians perform technical tasks to aid in electrical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.

Tasks include:

a) assisting in research and development work concerning electrical systems, equipment and facilities and testing prototypes;
b) assisting in design and layout of electrical installations and circuitry;
c) preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation;
d) assisting with technical supervision of the manufacture, installation, utilisation, maintenance and repair of electrical systems and equipment;
e) applying technical knowledge of electrical engineering theory and practice to identify and solve problems arising in the course of work;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3113)

3113-01	Electrical Engineering Technician
3113-02	Wire Cutting Technician
3113-03	High Voltage Electrical Engineering Technician
3113-04	Electrical Engineering Assistant

UNIT GROUP 3114 ELECTRONICS ENGINEERING TECHNICIANS

Electronics Engineering Technicians perform technical tasks to aid in electronic research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electronic equipment.

Tasks include:

a) providing technical assistance in research and development of electronic equipment, or testing prototypes;
b) assisting in design and layout of electronic circuitry;
c) assisting with preparation of detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of electronic equipment;
d) assisting with technical supervision of the manufacture, utilisation, maintenance and repair of electronic equipment systems to ensure satisfactory performance and compliance with specifications and regulations;
e) applying technical knowledge of electronic and telecommunications engineering principles and practices;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3114)

3114-01	Electronics Engineering Technician
3114-02	Electronics Engineering Estimator
3114-03	Engineering Assistant Electronics
3114-04	Electronics Design Technician

UNIT GROUP 3115 MECHANICAL ENGINEERING TECHNICIANS

Mechanical Engineering Technicians perform technical tasks to aid in mechanical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of machines, components and mechanical equipment.

Tasks include:

a) providing technical assistance in research and development work concerning machine tools, vehicle engines, aircraft, heating, ventilating and refrigerating installations and other mechanically functioning plant and equipment;
b) designing and preparing layouts of machine installations;

c) assisting with preparation of detailed estimates of quantities and costs of materials and labour required for manufacture and installation;
d) assisting with technical supervision of manufacture, utilisation, maintenance and repair of mechanical plants and engines;
e) applying technical knowledge of machinery and mechanical engineering principles and practices in order to identify and solve problems arising in the course of work;
f) ensuring that mechanical engineering design and final output are in accordance with the specifications, regulations and provisions of contracts;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3115)

3115-01	Aerospace (Mechanical) Engineering Technician
3115-02	Aeronautical Engineering Technician
3115-03	Automobile Engineering Technician
3115-04	Mechanical Engineering Technician

UNIT GROUP 3116 CHEMICAL ENGINEERING TECHNICIANS

Chemical Engineering Technicians perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plants.

Tasks include:
a) assisting in research on and development of industrial chemical processes, plants and equipment, or testing prototypes;
b) designing and preparing layouts of chemical plants according to the specifications given;
c) preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation, according to the specifications given;
d) monitoring the technical aspect in construction, installation, operation, maintenance and repair of chemical plants to ensure satisfactory performance and compliance with specifications and regulations;
e) conducting chemical and physical laboratory tests to assist scientists and engineers in the qualitative and quantitative analysis of solids, liquids and gases;
f) applying technical knowledge of chemical engineering principles and practices in order to identify and solve problems arising in the course of work;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3116)

3116-01	Chemical Engineering Technician
3116-02	Chemical Process Engineering Technician
3116-03	Petroleum Engineering Technician
3116-04	Oil Technologist

UNIT GROUP 3117 MINING AND METALLURGICAL TECHNICIANS

Mining and Metallurgical Technicians perform technical tasks to assist in research and experiments related to metallurgy in improving methods of extracting solid minerals, oil and gas, and in the design, construction, operation, maintenance and repair of mines and mine installations, of systems for transporting and storing oil and natural gas, and for extraction of metals from ores.

Tasks include:
a) gathering monthly data and information for the mining and quarrying sector;
b) providing technical assistance in research on and development of processes to determine the properties of metals and new alloys;
c) assisting in geological and topographical surveys, and in the design of oil, natural gas and mineral ore extraction and transport systems, and processing and refinery plant for minerals and metals;
d) assisting in preparation of estimates of quantities and costs of materials and labour required for mineral, oil and natural gas projects and transport, and for processing and refining minerals;

e) assisting in technical supervision of the construction, installation, operation, maintenance and repair of plants, transport and installation, storage and processing of mineral ore, oil and natural gas to ensure satisfactory performance and compliance with specifications and regulations;
f) applying knowledge of mining, extraction, transport and storage of oil and natural gas, and of metallurgical principles and practices in order to identify and solve problems arising in the course of work;
g) collecting and assisting in the study on all the conditions contained in the licences issued to operators of mines, quarries and mineral businesses for the purpose of standardisation and conducting inspection visits to all mining, quarrying and mineral business activities across the country;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: **(refer to index; unit group 3117)**

3117-01	Metallurgical Technician
3117-02	Extractive Metallurgical Technician
3117-03	Petroleum and Natural Gas Extraction Technician
3117-04	Metallurgical Laboratory Assistant

UNIT GROUP 3118 DRAUGHTSPERSONS AND SURVEYING TECHNICIANS

Draughtspersons and Surveying Technicians prepare technical drawings, maps and illustrations from sketches, measurements and other data, and copy drawings and paintings onto printing plates.

Tasks include:
a) preparing and reviewing working drawings and specifications made by engineers and designers for the manufacture, installation and erection of equipment and machinery, or for construction, modification, maintenance and repair of buildings, dams, bridges, roads and other architectural and civil engineering projects;
b) tracing and preparing drawings (plans) with complete specifications as per the specifications laid down;
c) performing field work for the project site and field information collection, tracing for the preparation of landscape plans and landscape construction drawing, preparation of drawings and illustrations of landscape development projects and proposals;
d) assisting in the work of landscape development project management, carrying out fieldwork for the management and maintenance of landscape as well as recording and documentation for implementation of landscape development;
e) conducting site study (land use), socio-economic survey, preparing plan for policy, landscape, village study and providing information on land use;
f) operating the digitising table or similar equipment to transfer the hard copy representation of working drawings, maps and other curves into digital form;
g) capturing topographical data in analogue or digital form using stereo instruments to prepare and revise topographical, hydrographic, utility and other thematic maps;
h) preparing and revising illustrations for reference, brochures and technical manuals dealing with the assembly, installation, operation, maintenance and repair of machinery and other equipment;
i) copying drawings and paintings onto stone or metal plates for printing;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: **(refer to index; unit group 3118)**

3118-01	Draughtsperson (Architecture) Grade JA19
3118-02	Draughting Technician
3118-03	Draughtsperson
3118-04	Draughtsperson, Die

UNIT GROUP 3119 INDUSTRIAL AND PRODUCTION TECHNICIANS

Industrial and Production Technicians carrying out technical tasks to assist in industrial engineering and production research, designing, manufacturing, assembling, construction, operation and maintenance. Help coordinate manufacturing activities and evaluate cost-effectiveness and safety.

Tasks include:

a) collecting data and providing technical assistance on planning and production methods, efficient, safe and economic utilisation of personnel, materials and equipment, methods of work and sequence of operations and supervision of their implementation, time and motion aspects of work organisation and efficient layout of plant or establishment;
b) identifying potential hazards and introducing safety procedures and devices;
c) collecting data and providing technical assistance on the preparation and monitoring of cost estimates and bills of quantities for construction and architectural projects;
d) assisting engineers in testing and design of robotic equipment;
e) modifying and testing the equipment and devices used in the prevention, control and recovery of environmental pollution, site restoration and land reclamation;
f) conducting inspections to ensure constructions and use of vehicles comply with the Road Transport Act 1987 and the rules made thereunder;
g) inspecting, maintaining and keeping such records as required by management, and ensure that all works are performed according to instructions;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3119)

3119-01	Technician
3119-02	Technician Grade P4
3119-03	Maintenance Technician
3119-04	Methods Engineering Technician

MINOR GROUP 312 MINING, MANUFACTURING AND CONSTRUCTION SUPERVISORS

Mining, Manufacturing and Construction Supervisors co-ordinate, supervise, control and schedule the activities of workers in manufacturing, mining and construction operations.

Occupations in this minor group are classified into the following unit groups:

3121 MINING SUPERVISORS
3122 MANUFACTURING SUPERVISORS
3123 CONSTRUCTION SUPERVISORS
3129 OTHER SUPERVISORS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 3121 MINING SUPERVISORS

Mining Supervisors oversee mining and quarrying operations and supervise and coordinate the activities of miners working in underground and surface mines and quarries.

Tasks include:

a) supervising and coordinating the activities of workers who extract minerals and other natural deposits from the earth, operating underground conveyances or heavy equipment in surface mines and quarries;
b) determining the methods to meet work schedules and recommending benchmarking to mining managers to improve productivity;
c) making requisitions, issuing and recording materials necessary for operations;
d) determining staffing and material needs for the mine or quarry;
e) planning and estimating cost of production and submitting periodic progress reports;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3121)

3121-01	Mine Supervisor
3121-02	Quarry Supervisor

UNIT GROUP 3122 MANUFACTURING SUPERVISORS

Manufacturing Supervisors coordinate and supervise the activities of process control technicians, machine operators, assemblers and other manufacturing labourers.

Tasks include:
a) receiving, recording and dispatching products;
b) organising and planning the daily work by taking into consideration plans, the economy, staff and the environment;
c) making requisitions, issuing and recording materials necessary for operations;
d) preparing monthly payroll or providing final figures for computing payroll and assisting in payment of advances and wages for workers;
e) planning and estimating cost of production and submitting periodic progress reports;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3122)

3122-01	Manufacturing Supervisor
3122-02	Production Supervisor
3122-03	Finishing Supervisor
3122-04	Packaging Supervisor

UNIT GROUP 3123 CONSTRUCTION SUPERVISORS

Construction Supervisors coordinate, supervise and schedule the duties of workers engaged in the construction and repair of buildings and structures.

Tasks include:
a) reading specifications to determine construction requirements and planning procedures;
b) organising and coordinating the materials and human resources required to complete jobs;
c) examining and inspecting work progress;
d) examining equipment and construction sites to ensure that health and safety requirements are met;
e) supervising construction sites and coordinating work with other construction projects;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3123)

3123-01	Operation Supervisor
3123-02	Project Supervisor
3123-03	Construction Supervisor
3123-04	Site Supervisor

UNIT GROUP 3129 OTHER SUPERVISORS NOT ELSEWHERE CLASSIFIED

This unit group covers Other Supervisors Not Elsewhere Classified in Minor Group 312: Mining, Manufacturing and Construction Supervisors. As an example, this group include Cleaning Supervisor.

Tasks include:
a) receiving, recording and dispatching products;
b) inspecting, maintaining and keeping such records as required by the management related to their area of responsibility and ensuring that all work is performed according to instructions;
c) making requisitions, issuing and recording materials necessary for operations;
d) planning and estimating cost of production and submitting periodic progress reports;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3129)

3129-01	Cleaning Supervisor

MINOR GROUP 313 PROCESS CONTROL TECHNICIANS

Process Control Technicians operate and monitor switchboards, computerised control systems and multi-function process control machinery, and maintain processing units in electrical power generation and distribution, wastewater, sewage treatment and waste disposal plants, chemicals, petroleum and natural gas refinery in metal processing and other process operations.

Occupations in this minor group are classified into the following unit groups:

3131 POWER PRODUCTION PLANT OPERATORS
3132 INCINERATOR AND WATER TREATMENT PLANT OPERATORS
3133 CHEMICAL PROCESSING PLANT CONTROLLERS
3134 PETROLEUM AND NATURAL GAS REFINING PLANT OPERATORS
3135 METAL PRODUCTION PROCESS CONTROLLERS
3139 PROCESS CONTROL TECHNICIANS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 3131 POWER PRODUCTION PLANT OPERATORS

Power Production Plant Operators operate, monitor and maintain switchboards and related equipment in electrical control centres which control the production and distribution of electricity or other power in transmission networks. The equipment operated includes reactors, turbines, generators and other auxiliary equipment in electrical power generating stations.

Tasks include:
a) operating and monitoring coal, oil or natural gas-fired steam power generating plant;
b) operating and monitoring hydroelectric power generating stations;
c) operating and controlling power generation systems and equipment including boilers, turbines, generators, condensers and reactors in hydro, heat, coal, oil, natural gas and nuclear power generating plants to generate and distribute electricity;
d) controlling the switching operation and the water level and communicating with system operators to control and coordinate the delivery load, frequency and line voltage;
e) taking readings from charts, meters and gauges at specified intervals, solving problems and implementing corrective action as necessary;
f) carrying out the cleaning and maintenance of equipment such as generators, boilers, turbines, pumps and compressors to prevent malfunction or deterioration of equipment;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3131)

3131-01	Electric Power Load Dispatcher
3131-02	Electrical Switchboard Operator
3131-03	Hydroelectric Station Operator
3131-04	Power Generating Plant Operator

UNIT GROUP 3132 INCINERATOR AND WATER TREATMENT PLANT OPERATORS

Incinerator and Water Treatment Plant Operators monitor and operate computerised control systems and related equipment and monitor various types of plant such as incinerators, water treatment plants, sewage plants, air and gas compressors, pumping stations and refrigeration or heating and ventilation systems.

Tasks include:
a) operating and monitoring incinerator machinery and equipment which burn garbage or other waste materials;
b) operating and monitoring machinery and equipment which purify and clarify water for human consumption or use and later disposal into natural water systems;
c) operating and monitoring machinery and equipment which regulate the treatment and disposal of sewage and wastes;
d) operating and monitoring air and gas compressors;
e) operating and monitoring pumping stations for transferring liquids, gases, semi-liquids and powdered substances from one location to another;
f) operating and monitoring refrigeration systems for cool or cold storage, or industrial processes;
g) operating and monitoring heating and ventilation systems;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3132)

3132-01	Stationary Engine Operator
3132-02	Compressor Operator
3132-03	Compressor Gas Operator
3132-04	Incinerator Plant Operator

UNIT GROUP 3133 CHEMICAL PROCESSING PLANT CONTROLLERS

Chemical Processing Plant Controllers operate and monitor chemical plants, adjust and maintain processing units and equipment which distil, filter, separate, heat or refine chemicals.

Tasks include:

a) operating the electronic or computerised control panel from a central control room to monitor and optimise physical and chemical processes for several processing units;
b) adjusting equipment, valves, pumps, control and process equipment;
c) controlling the preparation, measuring and feeding of raw materials and processing agents such as catalysts and filtering media into plants;
d) controlling processes and troubleshooting;
e) verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance;
f) analysing product samples, performing tests, recording data and production logs;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3133)

3133-01	Chemical Process Technician
3133-02	Chemical Plant Supervisor
3133-03	Chemical-Heat-Treating-Plant Operator
3133-04	Chemical-Filtering and Separating Equipment Operator

UNIT GROUP 3134 PETROLEUM AND NATURAL GAS REFINING PLANT OPERATORS

Petroleum and Natural Gas Refining Plant Operators operate and monitor plants which refine, distil and treat petroleum, petroleum-based products and by-products or natural gas.

Tasks include:

a) operating the electronic or computerised control panel from a central control room to monitor and optimise physical and chemical processes for several processing units;
b) operating and monitoring equipment to obtain oxygen and nitrogen from air for industrial and therapeutic use;
c) operating and monitoring plants in which pressure distillate and non-condensable gases are treated;
d) operating and monitoring pumps which circulate petroleum products or water and chemical solutions through the refinery;
e) operating and monitoring control panels in the petroleum refinery;
f) operating and monitoring the distillation apparatus which distils or refines petroleum products;
g) operating and monitoring machines which blend petrol with chemicals and other additives;
h) operating and monitoring machines which refine or otherwise treat natural gas;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3134)

3134-01	Pumpman (Petroleum Refining)
3134-02	Stillman (Petroleum Refining)
3134-03	Controlman (Petroleum Refining)
3134-04	Desulphuriser Operator, Petroleum Refining

UNIT GROUP 3135 METAL PRODUCTION PROCESS CONTROLLERS

Metal Production Process Controllers operate and monitor multi-function process control machinery and equipment to melt or reheat metal, or machines to cast metal.

Tasks include:

a) coordinating and controlling metal processing production operation through control panels, computer terminals or other control systems;
b) operating and monitoring furnaces to melt ferrous and non-ferrous metals for casting;
c) operating and monitoring furnaces to reheat stock metal forms prior to forging, power-pressing, rolling and further processing;
d) operating and monitoring rolling mills to mould hot or cold steel into shapes for further processing, or into final shapes;
e) operating and monitoring rolling mills to mould hot or cold non-ferrous metal into specified shapes such as plates, sheets or foils;
f) pouring molten metal into moulds and operating and monitoring casting machines;
g) operating rolling mills to form hot or cold non-ferrous metal into plates, sheets, foils, wires or rods of specified dimensions;
h) manipulating controls of rolling mills;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3135)

3135-01	Rolling-Mill Metal Manipulator
3135-02	Guide Setter, Metal
3135-03	Metal Processing Control Operator
3135-04	Blast Furnace Operator

UNIT GROUP 3139 PROCESS CONTROL TECHNICIANS NOT ELSEWHERE CLASSIFIED

This unit group covers Process Control Technicians Not Elsewhere Classified in Minor Group 313: Process Control Technicians.

Tasks include:

a) inspecting, maintaining and keeping such records as required by the management, relevant to their area of responsibility and ensuring that all work is performed according to instructions;
b) making requisitions, issuing and recording materials necessary for operations;
c) planning and estimating cost of production and submitting periodic progress reports;
d) performing related tasks; and
e) supervising, scheduling and monitoring the tasks of other workers.

MINOR GROUP 314 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS

Life Science Technicians and Related Associate Professionals perform a variety of technical tasks to support life science professionals with their research, development, management, conservation and protection work, in areas such as biology, botany, zoology, biotechnology and biochemistry, and in agriculture, fisheries and forestry.

Occupations in this minor group are classified into the following unit groups:

3141 LIFE SCIENCE TECHNICIANS (EXCLUDING MEDICAL)
3142 AGRICULTURAL AND LIVESTOCK TECHNICIANS
3143 FORESTRY TECHNICIANS
3144 FISHERY TECHNICIANS

UNIT GROUP 3141 LIFE SCIENCE TECHNICIANS (EXCLUDING MEDICAL)

Life Science Technicians (Excluding Medical) provide technical support to life science professionals undertaking research, analysis and testing of living organisms, and development and application of products and processes resulting from research in areas such as agriculture, natural resource management, environmental protection, plant and animal biology, microbiology, and cell and molecular biology.

Tasks include:

a) assisting in designing, setting up and conducting experiments;
b) setting up, calibrating, operating and maintaining laboratory instruments and equipment;
c) collecting and preparing specimens and samples, chemical solutions and slides and growing cultures for use in experiments;
d) performing routine field and laboratory tests;
e) monitoring experiments to ensure adherence to correct laboratory quality control procedures and health and safety guidelines;
f) making observations of tests, and analysing, calculating, recording and reporting test results using appropriate scientific methods;
g) preserving, classifying and cataloguing specimens and samples;
h) keeping detailed logs of work performed;
i) participating in the research, development and manufacture of products and processes;
j) ordering and stocking laboratory supplies;
k) maintaining relevant databases;
l) performing related tasks; and
m) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3141)

3141-01	Biological Technician
3141-02	Entomological Technician
3141-03	Tissue Culture Technician
3141-04	Botanical Technician

UNIT GROUP 3142 AGRICULTURAL AND LIVESTOCK TECHNICIANS

Agricultural and Livestock Technicians perform technical tasks related to research in agronomy, as well as with the development of agricultural applications of research results and provide technical and scientific support to agricultural scientists and farmers.

Tasks include:

a) carrying out development work including planning, implementing, evaluating, tracking development programmes through group farming project implementation;
b) collecting and preparing specimens such as soils, plant or animal cells, tissues or parts or organs of animals for experiments, tests and analyses;
c) preparing and collecting specimens, materials and equipment for experiments, tests and analyses;
d) organising maintenance and repair of farm machinery and farm equipment;
e) overseeing product quality;
f) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
g) analysing samples of seeds for quality, purity and germination rating;
h) collecting data and estimating quantities and costs of materials and labour required for projects;
i) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3142)

3142-01	Agronomy Technician
3142-02	Crop Research Technician
3142-03	Soil Science Technician
3142-04	Floriculture Technician

UNIT GROUP 3143 FORESTRY TECHNICIANS

Forestry Technicians perform technical tasks related to research in forestry and forest management, harvesting, resource conservation and environmental protection as well as the development of forestry applications for research results.

Tasks include:

a) conducting forest inventories, surveys and field measurements following accepted scientific and operational procedures;
b) assisting in and performing technical functions in forest management and harvest plans using photogrammetric and mapping techniques and computerised information systems;
c) preparing and collecting specimens, materials and equipment for experiments, tests and analyses;
d) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
e) analysing samples of seeds for quality, purity and germination rating;
f) collecting data and estimating quantities and costs of materials and labour required for projects;
g) regulating the work of forest development, operational, factory enforcement, recreational forest encroachment and work operations including revenue collection for timber forest products;
h) reviewing and monitoring licences for forestry operation and wood-based industries;
i) teaching trainees to operate and maintain heavy machinery in logging, techniques in road-building and timber hauling in the forest;
j) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
k) performing related tasks; and
l) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer index; unit group 3143)

3143-01	Arboriculture Technician
3143-02	Forestry Technician
3143-03	Silviculture Technician
3143-04	Assistant Conservator of Forests Grade G29

UNIT GROUP 3144 FISHERY TECHNICIANS

Fishery Technicians perform technical tasks related to research in fisheries, as well as with the development of fishery applications for research results.

Tasks include:

a) preparing and collecting specimens, materials and equipment for experiments, tests and analyses;
b) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
c) analysing samples of fish for quality;
d) collecting data and estimating quantities and costs of materials and labour required for projects;
e) organising maintenance and repair of research equipment;
f) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3144)

3144-01	Hatchery Technician
3144-02	Hatchery Supervisor
3144-03	Fishery Technician
3144-04	Hatchery Assistant

MINOR GROUP 315 SHIP, AIRCRAFT AND TRAIN TECHNICIANS

Ship, Aircraft and Train Technicians supervise land, air and waterborne transport service operation.

Occupations in this minor group are classified into the following unit groups:

3151 AIRCRAFT TECHNICIANS
3152 SHIP/ MARINE TECHNICIANS
3153 TRAIN/ LOCOMOTIVE TECHNICIANS
3154 MOTOR VEHICLE TECHNICIANS
3159 TRANSPORT TECHNICIANS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 3151 AIRCRAFT TECHNICIANS

Aircraft Technicians repair, overhaul, examine, test and service aircraft engines and other aircraft mechanical equipment.

Tasks include:
a) servicing, repairing and overhauling engines of aircraft such as jets, turbo and piston engines and aircraft other mechanical equipment;
b) testing engines using testing equipment;
c) examining engines for cracked cylinders, oil leaks and other defects;
d) repairing, assembling and replacing engine parts;
e) removing the engine from aircraft for overhaul and installing replacements;
f) inspecting, servicing and repairing pneumatic and hydraulic systems;
g) taking charge of the Aeronautical Fixed Telecommunication Network (AFTN) system and provision of high frequency radio service and assisting with the air traffic control system in the airspace;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3151)

3151-01	Air Traffic Safety Technician
3151-02	Aircraft Technician
3151-03	Aviation Maintenance Technician
3151-04	Aircraft Service Technician

UNIT GROUP 3152 SHIP/ MARINE TECHNICIANS

Ship/ Marine Technicians repair or service marine engine in workshops or on board.

Tasks include:
a) assisting in the provision of information and documents to develop a training course programme in navigation (nautical); marine engineering in accordance with prescribed standards;
b) assisting in seafarer documentation matters;
c) assisting in the management of navigational aids;
d) managing ship and boat registration documents;
e) repairing and servicing steam, petrol, diesel and marine engines;
f) examining engines to locate defects using various tools and instruments;
g) partially or completely dismantling engines to remove or repair faulty worn out parts;
h) starting engines and observing their performance by noting different meter readings for temperature, fuel level and oil pressure, and making the necessary adjustments for optimum performance;
i) checking, adjusting and lubricating engines periodically to keep them in good working order;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3152)

3152-01	Marine Assistant Grade A19
3152-02	Berthing Master
3152-03	Yacht Skipper
3152-04	Cargo Ships Traffic Supervisor

UNIT GROUP 3153 TRAIN/ LOCOMOTIVE TECHNICIANS

Train/ Locomotive Technicians service and repair train/ locomotive engines.

Tasks include:
a) servicing or repairing train/ locomotive engines;
b) examining engines to locate defects using various tools and instruments;
c) partially or completely dismantling engines to replace or adjust faulty worn out parts;
d) checking, adjusting and lubricating engines periodically to keep them in good working order;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3153)

3153-01	Train Technician
3153-02	Railway Supervisor
3153-03	Locomotive Supervisor
3153-04	Light Rail Transit Supervisor

UNIT GROUP 3154 MOTOR VEHICLE TECHNICIANS

Motor Vehicle Technicians service and repair vehicle engines.

Tasks include:
a) servicing or repairing motor vehicle engines;
b) inspecting the engine to detect defects using various tools and instruments;
c) opening part of or the entire engine to replace or fix worn and damaged parts;
d) inspecting, adjusting and lubricating the engine periodically to keep it in good condition;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3154)

3154-01	Vehicle Technician
3154-02	Motor Vehicle Engine and Fuel Systems Technician
3154-03	Motor Vehicle Mechatronics Technician
3154-04	Automotive Brake Systems Technician

UNIT GROUP 3159 TRANSPORT TECHNICIANS NOT ELSEWHERE CLASSIFIED

This unit group covers Transport Technicians Not Elsewhere Classified in Minor Group 315: Ship, Aircraft and Train Technicians. As an example, this group include Road Transport Supervisor, Logistic Supervisor, Transport Supervisor, Halal Logistics, Operation and Green Technology Infrastructure Assistant Facilitator.

Tasks include:
a) supervising and coordinating service activities of the traffic department;
b) directing and supervising activities of bus conductors and drivers within a limited geographical area;
c) carrying out transportation activities nationally and globally by connecting factories, Suppliers and customers, working in warehouse environment, involved in receiving, packing, shipping and processing orders;
d) performing related tasks; and
e) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3159)

3159-01	Road Transport Supervisor
3159-02	Logistics Supervisor
3159-03	Transport Supervisor, Halal Logistics Operation
3159-04	Green Technology Infrastructure Assistant Facilitator

MINOR GROUP 316 NUCLEAR SCIENCE ASSOCIATE PROFESSIONALS

Nuclear Science Associate Professionals assist scientists in both laboratory and production activities by performing technical tasks involving nuclear physics, primarily in operation, maintenance, production and quality control support activities.

Occupations in this minor group are classified into the following unit groups:

3161 NUCLEAR RESEARCH AND DEVELOPMENT ASSOCIATE PROFESSIONALS

UNIT GROUP 3161 NUCLEAR RESEARCH AND DEVELOPMENT ASSOCIATE PROFESSIONALS

Nuclear Research and Development Associate Professionals collect and test samples to monitor results of nuclear experiments and contamination of humans, facilities and environment.

Tasks include:

a) assisting scientists to develop new concepts, technologies and strategies to improve nuclear technology;
b) operating equipment used for the release, control and utilisation of nuclear energy to assist scientists in laboratory;
c) designing, coordinating and controlling technical aspects of projects;
d) analysing test results;
e) ensuring the preparation of the necessary materials and chemical solutions;
f) maintaining the laboratory in a clean and tidy condition;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3161)

3161-01 Nuclear Technician

SUB-MAJOR 32 HEALTH ASSOCIATE PROFESSIONALS

Health Associate Professionals perform technical tasks related to research and the practical application of concepts, principles and operational methods in the fields of medicine, veterinary, dentistry, pharmacy, sanitation, nursing, midwifery, traditional medicine, faith healing and related disciplines.

Occupations in this sub-major group are classified into the following minor groups:

321 MEDICAL AND PHARMACEUTICAL TECHNICIANS
322 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS
323 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS
324 VETERINARY TECHNICIANS AND ASSISTANTS
325 OTHER HEALTH ASSOCIATE PROFESSIONALS

MINOR GROUP 321 MEDICAL AND PHARMACEUTICAL TECHNICIANS

Medical and Pharmaceutical Technicians perform technical tasks to assist in the diagnosis and treatment of diseases, transmission of disease, injury and disability.

Occupations in this minor group are classified into the following unit groups:

3211 MEDICAL IMAGING AND THERAPEUTIC EQUIPMENT TECHNICIANS
3212 MEDICAL AND PATHOLOGY LABORATORY TECHNICIANS
3213 PHARMACEUTICAL TECHNICIANS AND ASSISTANTS
3214 MEDICAL AND DENTAL PROSTHETIC TECHNICIANS
3215 ORTHOTIC AND PROSTHETIC TECHNICIANS

UNIT GROUP 3211 MEDICAL IMAGING AND THERAPEUTIC EQUIPMENT TECHNICIANS

Medical Imaging and Therapeutic Equipment Technicians test and operate radiography, ultrasound and other medical imaging equipment to produce images of the body for the purpose of diagnosis and treatment of injuries, diseases and other disabilities. They may perform radiation treatment on patients under the supervision of a radiologist or other medical professional.

Tasks include:

a) operating radiographic equipment including x-ray machine, performing radiological procedure using general x-ray equipment as well as MRI and CT scan machines whether in the ward, operation theatre and the casualty/ accident division using the mobile x-ray equipment;
b) explaining procedures, observing and positioning patients, and sing protective equipment to ensure patient safety and comfort during examination, scanning or treatment;
c) tracking and mapping radiopharmaceuticals or radiation in the patient's body, using radioisotopes, camera and other equipment to diagnose and treat diseases;
d) setting in position required apparatus and equipment;
e) maintaining the laboratory in a clean and tidy condition;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3211)

3211-01	Radiographer Grade U29
3211-02	Radiographer
3211-03	Radiology Technician
3211-04	Diagnostic Medical Radiographer

UNIT GROUP 3212 MEDICAL AND PATHOLOGY LABORATORY TECHNICIANS

Medical and Pathology Laboratory Technicians perform clinical tests on body fluid and tissue specimens to obtain information on the health of the patient or the cause of death.

Tasks include:

a) conducting chemical analysis of body fluids including blood, urine and spinal fluid to determine presence of normal and abnormal components;
b) operating, calibrating and maintaining equipment used in quantitative and qualitative analysis, such as the spectrophotometer, calorimeter and flame photometer;
c) setting up, cleaning and maintaining laboratory equipment;
d) analysing laboratory output to check the accuracy of the results;
e) providing and collecting specimens of body fluids and tissues of patients and evaluating the results to determine the type, stage of development and sources of infection;
f) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
g) providing guidance to the patient on the use, proper installation of orthotic devices, ways of walking or movement as required, means of maintaining the device so that is not harmful and in good condition;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3212)

3212-01	Anatomy Technician
3212-02	Blood-Bank Technician
3212-03	Biophysics Technician
3212-04	Ecology Technician

UNIT GROUP 3213 PHARMACEUTICAL TECHNICIANS AND ASSISTANTS

Pharmaceutical Technicians and Assistants dispense and prepare medicine under the guidance of pharmacists or other health professionals.

Tasks include:
a) preparing medicine and pharmaceutical compounds under the guidance of pharmacists;
b) dispensing medicines and drugs and giving written and oral instructions on their use, as prescribed by medical doctors;
c) cleaning and preparing equipment and containers used to prepare and dispense medicine and pharmaceutical compounds;
d) conducting routine laboratory tests to determine characteristics of pharmaceutical products;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3213)

3213-01	Pharmaceutical Assistant
3213-02	Pharmaceutical Laboratory Assistant
3213-03	Pharmaceutical Technician
3213-04	Pharmacy Aide

UNIT GROUP 3214 MEDICAL AND DENTAL PROSTHETIC TECHNICIANS

Medical and Dental Prosthetic Technicians design, adjust, service and repair medical and dental devices and equipment according to prescription or instruction from health professionals. They make full or partial dentures, inlays, bridges and crowns of metal vulcanite or other composition plates from wax or plaster impressions.

Tasks include:
a) discussing with medical and dental practitioners to formulate specifications and prescriptions of devices and equipment;
b) making special impressions as instructed by the dental surgeon and preparing plaster casts of upper and lower jaws from wax impressions;
c) shaping metal vulcanite or plastic plates for dentures and setting false teeth in plates;
d) processing dentures in acrylic resin or metal and bridges according to the impression taken;
e) forming porcelain teeth and crowns and repairing or making additions to existing dentures;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3214)

3214-01	Dental technician
3214-02	Denturist
3214-03	Orthotic Technician
3214-04	Orthotist

UNIT GROUP 3215 ORTHOTIC AND PROSTHETIC TECHNICIANS

Orthotic and Prosthetic Technicians measure, design, fabricate, fit or service a prosthetic as prescribed by a doctor, and assist in the formulation of the prosthesis prescription for the replacement of external parts of the human body lost due to amputation or congenital deformities or absences.

Tasks include:
a) ensuring devices fit well and that patients have an acceptable range of movement;
b) crafting prosthetic limbs from softer plastics;
c) performing related tasks; and
d) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3215)

3215-01	Orthopaedic Technician
3215-02	Prosthetic Technician
3215-03	Medical Technician Grade U19

MINOR GROUP 322 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS

Nursing and Midwifery Associate Professionals apply medical concepts and principles relating to the nursing of the ill, injured or disabled, and care of mothers and their newborn babies.

Occupations in this minor group are classified into the following unit groups:

3221 NURSING ASSOCIATE PROFESSIONALS (EXCEPT DENTAL)
3222 MIDWIFERY ASSOCIATE PROFESSIONALS

UNIT GROUP 3221 NURSING ASSOCIATE PROFESSIONALS (EXCEPT DENTAL)

Nursing Associate Professionals (Except Dental) provide basic nursing and personal care for people who are physically or mentally ill, disabled or infirm, and others in need of care due to risks to health.

Tasks include:
a) providing nursing care, treatment and advice to the ill, injured, disabled and others in need of such care;
b) assisting medical doctors in their tasks, administering medicine and drugs, applying surgical dressings and giving other forms of treatment under the instruction of medical doctors;
c) assisting in treatment in emergencies;
d) assisting in preparation of physical and psychiatric treatment of mentally ill patients;
e) assisting in preparation for social adjustment, development and education of mentally or physically handicapped patients;
f) providing nursing care to patients in their homes;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3221)

3221-01	Nurse Grade U29
3221-02	Assistant Nurse
3221-03	Enrolled Nurse
3221-04	Practical Nurse

UNIT GROUP 3222 MIDWIFERY ASSOCIATE PROFESSIONALS

Midwifery Associate Professionals deliver or assist doctors in the delivery of babies, provide ante-natal and post-natal care and advise parents on baby care.

Tasks include:
a) performing a variety of tasks and being a member of the health team directly serving the public;
b) advising expectant mothers on appropriate diet, exercise and conduct to ease pregnancy and childbirth, and noting their general health;
c) assisting doctors in deliveries;
d) attending to mothers in the post-natal period to supervise their recovery, check on babies' health and advise parents on baby care;
e) conducting health education classes and seminars to promote the health of mothers and infants;
f) advising on birth control methods;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3222)

3222-01	Midwife
3222-02	Midwifery Assistant

MINOR GROUP 323 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS

Traditional and Complementary Medicine Associate Professionals prevent, care for and treat physical and mental illnesses, disorders and injuries using herbal and other therapies based on theories, beliefs and experiences originating in specific cultures.

Occupations in this minor group are classified into the following unit groups::

3231 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS

UNIT GROUP 3231 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS

Traditional and Complementary Medicine Associate Professionals treat mental and physical sickness using herbs, medicinal plants and other traditional techniques employed in the community and advise on methods to preserve or improve the health and well-being of a person.

Tasks include:

a) examining patients, making diagnoses and treating diseases and injuries using herbs, medicinal plants and other traditional techniques employed in the community;
b) advising the community and individuals on proper diet and conduct to preserve or improve health and well-being;
c) performing related tasks; and
d) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3231)

3231-01	Traditional Malay Medicine Practitioner
3231-02	Traditional Chinese Medicine Practitioner
3231-03	Traditional Indian Medicine Practitioner
3231-04	Traditional Chinese Medicine Dispenser

MINOR GROUP 324 VETERINARY TECHNICIANS AND ASSISTANTS

Veterinary Technicians and Assistants advise, carry out diagnostic, preventive and curative veterinary tasks more limited in scope and complexity than those carried out by veterinarians. They care for animals under treatment and assist veterinarians to perform procedures and treatment.

Occupations in this minor group are classified into the following unit groups:

3241 VETERINARY TECHNICIANS AND ASSISTANTS

UNIT GROUP 3241 VETERINARY TECHNICIANS AND ASSISTANTS

Veterinary Technicians and Assistants advise, carry out diagnostic, preventive and curative veterinary tasks more limited in scope and complexity than those carried out by veterinarians. They care for animals under treatment and assist veterinarians to perform procedures and treatment.

Tasks include:

a) helping to carry out the duties of animal management and enforcement, management of animal health, animal fertility management, inspection of animal quarantine centre, ante-mortem and post-mortem inspection at slaughterhouses and processing plants and advising on farming, enforcement of veterinary legislation, and data collection of animals;
b) advising the community and individuals on the treatment of animals and their diseases and injuries;
c) examining animals to make diagnoses or referring more difficult cases to veterinarians when needed;
d) treating ill or injured animals, especially for common diseases and disorders;
e) preparing and maintaining instruments and materials used in the treatment of animals;
f) carrying out technical tasks connected with artificial insemination of animals;

g) preparing animals for examination or treatment and holding them during treatment, if necessary;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3241)

3241-01	Veterinary Assistant Grade G19
3241-02	Veterinary Technician
3241-03	Veterinary Biotech Research Technician
3241-04	Veterinary Vaccinator

MINOR GROUP 325 OTHER HEALTH ASSOCIATE PROFESSIONALS

Other Health Associate Professionals include other health associate professionals engaged in health activities outside the scope of those classified in minor groups 321-324.

Occupations in this minor group are classified into the following unit groups:

3251 DENTAL ASSISTANTS AND THERAPISTS
3252 MEDICAL RECORD AND HEALTH INFORMATION TECHNICIANS
3253 COMMUNITY HEALTH WORKERS
3254 DISPENSING OPTICIANS
3255 PHYSIOTHERAPY TECHNICIANS AND ASSISTANTS
3256 MEDICAL ASSISTANTS
3257 ENVIRONMENTAL AND OCCUPATIONAL HEALTH INSPECTORS AND ASSOCIATES
3258 AMBULANCE ASSISTANTS
3259 HEALTH ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 3251 DENTAL ASSISTANTS AND THERAPISTS

Dental Assistants and Therapists carry out advisory, diagnostic, preventive and curative dental tasks more limited in scope and complexity than those carried out by dentists, and assist dentists by preparing and maintaining instruments and other equipment, preparing materials and helping patients prepare for examination and treatment.

Tasks include:
a) examining, diagnosing and managing the treatment of patients under their care and referring to the dental officer for further action;
b) carrying out health education activities through brushing instruction, lectures and health campaign exhibitions;
c) providing advice to the community and the individual on dental hygiene, diet and other preventive dental measures;
d) carrying out dental examinations to make diagnoses and referring more complex cases to dentists when necessary;
e) preparing and maintaining dental instruments and equipment;
f) preparing dental materials;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3251)

3251-01	Dental Surgery Assistant Grade U19
3251-02	Public Health Dental Nurse
3251-03	Dental Nurse
3251-04	Dental School Nurse

UNIT GROUP 3252 MEDICAL RECORD AND HEALTH INFORMATION TECHNICIANS

Medical Record and Health Information Technicians organise and evaluate the results of examinations, reports on x-rays and laboratory tests, diagnoses and treatment plans for completeness and accuracy.

Tasks include:
a) planning, developing, maintaining and managing a variety of health record indexes for the collection, classification, storage and analysis of information using computer programs to tabulate and analyse

data to improve patient care, improve cost control, provide documentation for use in legal action or in research studies;
b) copying, compiling and processing the patients' medical records, admission and discharge documents and other medical reports in the record-keeping system to provide data for monitoring and referrals;
c) protecting the security of medical records;
d) performing related tasks; and
e) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3252)

3252-01	Medical Record Technician
3252-02	Clinical Coder
3252-03	Disease Registry Technician
3252-04	Medical Records Analyst

UNIT GROUP 3253 COMMUNITY HEALTH WORKERS

Community Health Workers carry out advisory, diagnostic, preventive and curative medical tasks more limited in scope and complexity than those carried out by medical doctors. They provide support and assistance to individuals and families in the health and social service system.

Tasks include:
a) providing information to families and the community on various health issues including nutrition, hygiene, care of infants and children, immunisation, family planning, risk factors and prevention of normal, infectious diseases, poison prevention, first aid treatment for simple and common afflictions, abuse, domestic violence and other topics;
b) advising the community and individuals on hygiene, diet and other preventive medical measures;
c) conducting medical examinations to diagnose diseases and/or referring more difficult cases to medical doctors when necessary;
d) distributing medical supplies to households to prevent and treat endemic diseases such as malaria, pneumonia and diarrhoeal diseases;
e) visiting families in their homes to provide information about health, social services and other services;
f) prescribing medicine and giving treatment for diagnosed illnesses, disorders or injuries;
g) collecting household and community data for the purpose of monitoring and referrals, and preparing reports to meet health regulations;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3253)

3253-01	Community Health Aide
3253-02	Community Health Promoter
3253-03	Community Health Worker
3253-04	Village Health Worker

UNIT GROUP 3254 DISPENSING OPTICIANS

Dispensing Opticians design, fit and dispense optical lenses based on a prescription from an ophthalmologist or optometrist for the correction of reduced visual acuity. They also advise patients on the wearing of and care for their spectacles and contact lenses.

Tasks include:
a) interpreting optical prescriptions written by optometrists or ophthalmologists;
b) giving advice to patients on lens type, frames and styles;
c) fitting contact lenses and giving advice on their care and use;
d) taking frame and facial measurements to ensure correct fit and positioning;
e) advising patients when adjustments or fixing of spectacles are required;
f) examining lenses upon receipt to ensure they meet the required specifications;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3254)

3254-01	Optician, Contact-Lens Dispensing
3254-02	Contact Lens Optician
3254-03	Dispensing Optician

UNIT GROUP 3255 PHYSIOTHERAPY TECHNICIANS AND ASSISTANTS

Physiotherapy Technicians and Assistants provide physical therapy to patients whose movements have been affected by disease, injury or degeneration. The therapy has usually been prescribed by a physiotherapist or other health professional to rehabilitate the patients.

Tasks include:

a) advising the community and individuals on correct body postures at work or otherwise, to avoid injuries and strain and to strengthen muscles;
b) conducting examinations to make diagnoses of disorders of bones, muscles and parts of the circulatory or the nervous system to determine proper treatment or referring to medical doctors, if necessary;
c) treating disorders of bones, muscles and parts of the circulatory or the nervous system by manipulative methods and the use of ultrasound, heating, laser or similar techniques;
d) massaging clients to improve blood circulation, soothe or stimulate nerves, facilitate elimination of waste matter, stretch contracted tendons and produce other therapeutic effects;
e) applying physiotherapy and related techniques as part of the treatment of physically or mentally disabled persons; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 3255)

3255-01	Physiotherapy Assistant
3255-02	Electrotherapist
3255-03	Acupressure Therapist
3255-04	Hydrotherapist

UNIT GROUP 3256 MEDICAL ASSISTANTS

Medical Assistants perform basic clinical and administrative tasks to support patient care under the direct supervision of a medical practitioner or other health professionals.

Tasks include:

a) advising the community and individuals on hygiene, diet and other preventive medical measures;
b) conducting medical examinations to diagnose illness and/or referring more difficult cases to medical doctors when necessary;
c) prescribing medicine and giving treatment for diagnosed illnesses, disorders or injuries;
d) performing simple surgical operations; and
e) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3256)

3256-01	Medical Laboratory Assistant
3256-02	Hospital Assistant
3256-03	Medical Assistant
3256-04	Clinical Assistant

UNIT GROUP 3257 ENVIRONMENTAL AND OCCUPATIONAL HEALTH INSPECTORS AND ASSOCIATES

Environmental and Occupational Health Inspectors and Associates inspect environmental factors which can affect human health, occupational safety and the goods production or service process in accordance with related laws and regulations.

Tasks include:

a) advising representatives of employers and workers on the implementation of government and other rules and regulations concerning occupational safety and the work environment;
b) inspecting places of work to ensure that the work environment, machinery and equipment conform to government and other rules and regulations;
c) inspecting areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules and regulations;
d) inspecting products or finished components to ensure compliance of the specifications and standards of the manufacturer;
e) advising enterprises and the general public on the implementation of government and other rules and regulations concerning hygiene, sanitation, purity and grading of primary products, food, drugs, cosmetics and similar goods;
f) advising producers, operators and those maintaining and repairing aircraft, cars and other vehicles on the implementation of government and other rules and regulations concerning technical standards and conditions of vehicles;
g) inspecting vehicles and places authorised to maintain and repair vehicles to ensure that they conform to standards and government and other regulations;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3257)

3257-01	Public Health Inspector
3257-02	Public Health Safety Inspector
3257-03	Public Health Unit Inspector
3257-04	Public Health Restaurant Inspector

UNIT GROUP 3258 AMBULANCE ASSISTANTS

Ambulance Assistants provide emergency health care to patients who are injured, sick, infirm, or otherwise physically or mentally impaired prior to and during transport to medical facilities.

Tasks include:

a) delivering appropriate care and treatment to preserve life, preventing a patient's condition from deteriorating and promoting recovery;
b) assessing the health status of persons involved in accidents, natural disasters and other emergency situations, and determining needs for immediate medical assistance;
c) performing medical procedures and administering drugs and other therapies according to the procedure for emergency medical treatment, including resuscitating and defibrillating patients and operating life support equipment;
d) monitoring changes in the health status of patients during transport from medical, rehabilitation and other health care facilities;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3258)

3258-01	Ambulance Assistants
3258-02	Ambulance Officer
3258-03	Ambulance Paramedic
3258-04	Emergency Medical Technician

UNIT GROUP 3259 HEALTH ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Health Associate Professionals Not Elsewhere Classified in Minor Group 325: Other Health Associate Professionals.

Tasks include:

a) determining the type of disease or condition affecting the patient;
b) interviewing and examining patients to obtain information on their health status and the nature and extent of injury, illness or other physical or mental health problem;
c) monitoring the health of patients through the treatment plan, and identifying the signs and symptoms that require referral to a medical doctor or other health professional;

d) storing information on the patient's health status and response to treatment in the medical record-keeping system;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

SUB-MAJOR 33 BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS

Business and Administration Associate Professionals perform mostly technical tasks connected with the practical application of knowledge relating to financial accounting and transaction matters, mathematical calculations, human resource development, sale and purchase of financial instruments and specialised secretarial tasks. They include workers who provide business services such as conference planning, job placements, sale and purchase of real estate or bulk commodities, and agents for performers such as athletes and artists.

Occupations in this sub-major group are classified into the following minor groups:

331 FINANCIAL AND MATHEMATICAL ASSOCIATE PROFESSIONALS
332 SALES AND PURCHASING AGENTS AND BROKERS
333 BUSINESS SERVICES AGENTS
334 ADMINISTRATIVE AND SPECIALISED ASSOCIATE PROFESSIONALS

MINOR GROUP 331 FINANCIAL AND MATHEMATICAL ASSOCIATE PROFESSIONALS

Financial and Mathematical Associate Professionals place a value on various items and property, maintain records of financial transactions, analyse loan application information and make decisions, buy and sell financial instruments, and perform mathematical and related calculations.

Occupations in this minor group are classified into the following unit groups:

3311 SECURITIES AND FINANCE DEALERS AND BROKERS
3312 CREDIT AND LOAN OFFICERS
3313 ACCOUNTING ASSOCIATE PROFESSIONALS AND AUDITING
3314 STATISTICAL, MATHEMATICAL AND ACTUARIAL ASSOCIATE PROFESSIONALS
3315 VALUERS AND LOSS ASSESSORS

UNIT GROUP 3311 SECURITIES AND FINANCE DEALERS AND BROKERS

Securities and Finance Dealers and Brokers buy and sell securities, stocks, bonds and other financial instruments, and deal on the foreign exchange on spot or on futures markets on behalf of their own company or for customers on a commission basis and recommend transactions to clients or senior management.

Tasks include:
a) obtaining information about the financial circumstances of customers and companies in which investments may be made;
b) analysing market trends for securities, bonds, stocks and other financial instruments, including foreign exchange;
c) informing prospective customers about market conditions and prospects;
d) advising on and participating in the negotiation of terms for and organisation of loans and placement of stocks and bonds in the financial market to raise capital for customers;
e) recording and transmitting buy and sell orders for securities, stocks, bonds or foreign exchange;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3311)

3311-01	Securities Broker
3311-02	Stock and Shares Broker
3311-03	Foreign Exchange Broker
3311-04	Stock Broker

UNIT GROUP 3312 CREDIT AND LOAN OFFICERS

Credit and Loan Officers analyse and evaluate financial information on applications for credit and loans and approve or disapprove, or recommend approval or disapproval to the management.

Tasks include:

a) interviewing applicants for personal loans, mortgage loans, student loans and business loans;
b) submitting credit and loan applications to the management with recommendations for approval or rejection;
c) keeping records of payments, and preparing letters requesting payment for overdue accounts and forwarding these for legal action;
d) completing credit and loan documentation;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3312)

3312-01	Mortgage Officer
3312-02	Loan Officer
3312-03	Credit Control Executive
3312-04	Credit Supervisor

UNIT GROUP 3313 ACCOUNTING AND AUDITING ASSOCIATE PROFESSIONALS

Accounting And Auditing Associate Professionals maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions.

Tasks include:

a) performing financial and accounting tasks;
b) maintaining complete records of all financial transactions of an undertaking according to general accounting principles with guidance from accountants;
c) verifying accuracy of documents and records relating to payments, receipts and other financial transactions;
d) preparing financial statements and reports for specified periods;
e) performing accounting calculation using standard computer software packages;
f) providing assistance in the preparation of cash flow projection and budgets;
g) applying knowledge of accounting principles in order to identify and solve problems arising in the course of their work;
h) enforcing the legal penalty of financial affairs management and providing counselling in terms of accounting systems, administrative and legal management of cooperatives and duties as directed from time to time;
i) supervising and analyzing enterprise finance report include prepared finance report, ensure compliance with tax regulations, and identify financial strengths and weaknesses;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3313)

3313-01	Book-Keeper
3313-02	Account Supervisor
3313-03	Financial Supervisor
3313-04	Assistant Accountant Grade W29

UNIT GROUP 3314 STATISTICAL, MATHEMATICAL AND ACTUARIAL ASSOCIATE PROFESSIONALS

Statistical, Mathematical and Actuarial Associate Professionals assist in planning the collection, processing and presentation of mathematical, statistical or actuarial data and in carrying out these operations, usually under the guidance of mathematicians and related professionals or statisticians.

Tasks include:

a) performing work related to collecting, processing and dissemination of data in macro-economics, commerce, population, demographics, manpower and the environment for national development and administrative planning;
b) preparing detailed estimates of quantities and costs of materials and labour required for statistical census and survey operations;
c) performing technical tasks connected with establishing, maintaining and using registers and sampling frames for census and survey operations;
d) performing technical tasks connected with data collection and quality control operations in censuses and surveys;
e) using standard computer software packages to perform mathematical, actuarial, statistical and related calculations;
f) preparing mathematical, actuarial, statistical and other results for presentation in graphical or tabular form;
g) applying knowledge of mathematical, actuarial, statistical and related principles and practices in order to identify and solve problems arising in the course of their work;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3314)

3314-01	Assistant Statistics Officer Grade E29

UNIT GROUP 3315 VALUERS AND LOSS ASSESSORS

Valuers and Loss Assessors value property and various goods and assess losses covered by insurance policies.

Tasks include:

a) determining the value of raw materials, real estate, industrial equipment, personal and household effects, works of art, gems and other objects offered for sale or to be insured;
b) assessing the extent of damage or loss and liabilities of insurance companies and underwriters for losses covered by insurance policies;
c) inspecting items or property to evaluate condition, size and construction;
d) obtaining records of sales and value of similar items or property;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3315)

3315-01	Appraiser
3315-02	Valuer
3315-03	Revenue Assessor
3315-04	Claims Inspector

MINOR GROUP 332 SALES AND PURCHASING AGENTS AND BROKERS

Sales and Purchasing Agents and Brokers represent companies, the government or other organisations in the sale and purchase of commodities, goods, insurance, shipping and other services to industries, professionals, commercial or other establishments or act as private agents to accompany buyers and sellers of commodities and services in negotiations.

Occupations in this minor group are classified into the following unit groups:

3321 INSURANCE REPRESENTATIVES
3322 COMMERCIAL SALES REPRESENTATIVES
3323 BUYERS
3324 TRADE BROKERS

UNIT GROUP 3321 INSURANCE REPRESENTATIVES

Insurance Representatives advise on and sell life, accident, automobile, liability, endowment, fire, marine and other types of insurance to new and existing clients.

Tasks include:

a) obtaining information about customers' circumstances necessary to determine the appropriate type of insurance and conditions;
b) negotiating with customers to determine the type and degree of risk for which insurance is derived, extent of coverage and terms of payment;
c) negotiating and placing reinsurance contracts;
d) advising on, negotiating terms for and placing insurance contracts for large or special types of projects, installations or risks;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3321)

3321-01	Insurance Agent
3321-02	Insurance Broker
3321-03	Insurance Underwriter
3321-04	Insurance Consultant

UNIT GROUP 3322 COMMERCIAL SALES REPRESENTATIVES

Commercial Sales Representatives sell various goods and services to retail, industrial, wholesale and other establishments and provide specific information on products as required.

Tasks include:

a) acquiring and updating knowledge of employers' and competitors' products and understanding market conditions;
b) soliciting orders and selling goods to retail, industrial, wholesale and other establishments;
c) selling technical equipment, supplies and related services to business establishments or individuals;
d) providing prospective customers with general and specialised information and the characteristics and functions of the equipment being promoted, and demonstrating its use;
e) quoting and negotiating prices and credit terms, completing contracts and recording orders;
f) arranging for delivery of goods, installation of equipment and provision of services;
g) reporting to sales management on sales made and the marketability of products;
h) reporting customers' reactions and requirements to manufacturers;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3322)

3322-01	Salesperson, Commercial
3322-02	After Sales Service Adviser
3322-03	Canvasser
3322-04	Sales Representative

UNIT GROUP 3323 BUYERS

Buyers buy goods and services for use or resale on behalf of industrial, commercial, government or other enterprises and organisations.

Tasks include:

a) negotiating and entering into a contract for the purchase of equipment, raw materials, products and supplies as well as the purchase of merchandise for resale;
b) obtaining information about requirements and stock, and determining the quantity and quality to be purchased, costs, delivery dates and other contract conditions;
c) negotiating with suppliers and review quotations;
d) purchasing of goods for resale by retail or wholesale establishments;
e) reviewing of market reports, trade magazines and sales promotion materials and visit trade events, showrooms, factories and product design functions;
f) selecting items or products that meet the needs of the establishment;
g) interviewing suppliers and negotiate prices, discounts, credit terms and transportation arrangements;
h) monitoring the distribution of goods store and maintain adequate stock levels;

i) purchasing goods or service on behalf of a private or an organization;
j) determining delivery schedules, monitorimg progress and contacting clients and suppliers to resolve problems;
k) performing related tasks; and
l) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: **(refer to index; unit group 3323)**

3323-01	Planning and Distribution Executive
3323-02	Purchasing Executive
3323-03	Buyer
3323-04	Buyer, Production Purchasing

UNIT GROUP 3324 TRADE BROKERS

Trade Brokers buy and sell commodities, usually in bulk, and shipping services on a commission basis for their organisation or clients.

Tasks include:
a) discussing buying or selling requirements of the client and giving advice accordingly;
b) negotiating purchase/ sale by private agreement of goods unsold at auction;
c) buying and selling cargo space on ships;
d) monitoring and analysing market trends and other factors that may affect demand and supply;
e) carrying out customs clearing procedures for exports or imports;
f) signing and issuing bills of lading;
g) making sure that the business service purchased is made available to the buyer in the agreed format at the agreed time;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: **(refer to index; unit group 3324)**

3324-01	Commodities Broker
3324-02	Shipping Broker
3324-03	Trade Broker

MINOR GROUP 333 BUSINESS SERVICES AGENTS

Business Services Agents establish contracts to sell various business services such as carrying out customs clearance activities, matching jobseekers with vacancies, finding workers for employers, planning and organising conferences and similar events, and arranging the sale and purchase of real estate.

Occupations in this minor group are classified into the following unit groups:

3331 CLEARING AND FORWARDING AGENTS
3332 CONFERENCE AND EVENT AGENTS
3333 EMPLOYMENT AGENTS AND CONTRACTORS
3334 REAL ESTATE AND PROPERTY AGENTS
3339 BUSINESS SERVICES AGENTS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 3331 CLEARING AND FORWARDING AGENTS

Clearing and Forwarding Agents carry out customs clearing procedures and ensure that insurance, export/import licences and other formalities are in order.

Tasks include:
a) carrying out customs clearing procedures for exports or imports;
b) ensuring that insurance is in order;
c) ensuring that export/ import licences and other formalities are in order;
d) signing and issuing bills of lading;
e) checking import/ export documentation to determine cargo contents, and classifying goods into different fee or tariff groups using a tariff coding system;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3331)

3331-01	Clearing Agent
3331-02	Forwarding Agent
3331-03	Shipping Agent
3331-04	Clearing and Forwarding Agent

UNIT GROUP 3332 CONFERENCE AND EVENT AGENTS

Conference and Event Agents organise and coordinate services for conferences, events, functions, banquets and seminars.

Tasks include:
a) promoting conferences, conventions and trade shows to potential customers;
b) responding to queries concerning services provided and costs for room and equipment hire, catering and related services;
c) meeting with clients to discuss their needs and outlining options to meet these needs;
d) arranging and coordinating services such as conference facilities, catering, signage, displays, audio-visual and computer equipment, accommodation, transport and social events for participants, as well as logistical arrangements for presenters;
e) handling registration of participants;
f) negotiating the type and costs of services to be provided within budget;
g) overseeing work by contractors and reporting on variations to work procedure;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3332)

3332-01	Exhibition and Convention Consultant
3332-02	Exhibition and Convention Organizer
3332-03	Travel Agent
3332-04	Travel Organizer

UNIT GROUP 3333 EMPLOYMENT AGENTS AND CONTRACTORS

Employment Agents and Contractors match jobseekers with vacancies, find workers for employers and contract labour for particular projects at the request of enterprises and other organisations.

Tasks include:
a) matching job seekers with vacancies;
b) finding workers for vacant posts against a commission from the employer or worker;
c) discussing with enterprises/ organisations the necessary skills and other characteristics of the workers to be employed or contracted;
d) finding workers with appropriate skills and undertaking the necessary formalities according to national or international regulations and requirements;
e) ensuring that the employment contracts meet legal requirements and signing them;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3333)

3333-01	Employment Agent
3333-02	Job Placement Officer
3333-03	Labour Contractor

UNIT GROUP 3334 REAL ESTATE AND PROPERTY AGENTS

Real Estate and Property Agents arrange the sale, purchase, rental and lease of real estate, usually on behalf of clients and on a commission basis.

Tasks include:

a) obtaining information about properties to be sold or leased, the circumstances of their owners and the stipulations and needs of prospective buyers or tenants;
b) showing properties to be sold or leased to prospective buyers or tenants and explaining terms of sale or conditions of rent or lease;
c) arranging signing of lease agreements and transfer of property rights;
d) collecting rent and deposits on behalf of owners and inspecting properties before, during and after tenancies;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3334)

3334-01	Real Estate Agent
3334-02	Property Agent
3334-03	Property Realtor
3334-04	Property Negotiator

UNIT GROUP 3339 BUSINESS SERVICES AGENTS NOT ELSEWHERE CLASSIFIED

This unit group covers Business Services Agents Not Elsewhere Classified in Minor Group 333: Business Services Agents. As an example, this group include Auctioneer, Literary Agent, Musical Performance Agent and Sports Agent.

Tasks include:

a) obtaining information about services for sale and needs of prospective buyers;
b) negotiating contracts on behalf of the seller or buyer and explaining the terms of sale and payment to the client;
c) signing agreements on behalf of the seller or buyer and ensuring that the contract is honoured;
d) making sure that the business service purchased is made available to the buyer in the agreed format at the agreed time;
e) selling by auction various kinds of property, cars, commodities, livestock, art, jewellery and other objects;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3339)

3339-01	Auctioneer
3339-02	Literary Agent
3339-03	Musical Performance Agent
3339-04	Sports Agent

MINOR GROUP 334 ADMINISTRATIVE AND SPECIALISED ASSOCIATE PROFESSIONALS

Administrative and Specialised Associate Professionals provide organisational communication and documentation support activities. They take supervisory responsibility for office clerks in the organisation.

Occupations in this minor group are classified into the following unit groups:

3341 ADMINISTRATIVE ASSOCIATE PROFESSIONALS
3342 LEGAL SECRETARIES

3343 ADMINISTRATIVE AND EXECUTIVE SECRETARIES
3344 MEDICAL SECRETARIES

UNIT GROUP 3341 ADMINISTRATIVE ASSOCIATE PROFESSIONALS

Administrative Associate Professionals carry out administrative duties in the support group.

Tasks include:

a) coordinating, assigning and reviewing the work of clerks engaged in the following duties: word processing, record keeping and filing; operating telephones and switchboards; data entry; desktop publishing, and other activities involving general office and administrative skills;
b) setting work schedules and procedures and co-ordinate activities with other work units or departments;
c) solving problems related to work and prepare and submit progress and other reports;
d) training and instructing employees in job duties, safety procedures and company policies or arrange for training to be provided;
e) evaluating staff performance and compliance regulations, and recommend appropriate personnel action;
f) be responsible to the President of the Senate, Secretary of the Senate (SUDN), the Secretary of the House of Representatives (SUDR) and Assistant Secretary General of the House Management (KPSU PD);
g) hiring, interviewing, and selecting employees; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3341)

3341-01	Sergeant-at-Arms Grade N29
3341-02	Data Entry Supervisor
3341-03	Hospital Admitting Clerks Supervisor
3341-04	Filling Clerks Supervisor

UNIT GROUP 3342 LEGAL SECRETARIES

Legal Secretaries apply specialised knowledge of legal terminology and procedures in providing support to legal professionals in communication, documentation and internal managerial coordination activities in law offices, legal departments of large firms and government offices.

Tasks include:

a) performing the duties associated with the legislation, including the registration, trial, suit, prosecution and administration of the court;
b) preparing and processing legal documents and papers such as deeds, wills, affidavits and briefs;
c) reviewing and proofreading documents and correspondence to ensure compliance with legal procedures;
d) preparing verbatim reports on proceedings in the legislative assemblies, courts of law or other places in shorthand or by other methods;
e) mailing, faxing or arranging for delivery of legal correspondence to clients, witnesses and court officials;
f) organising and maintaining documents, case files and law libraries;
g) screening requests for meetings, scheduling and organising meetings;
h) assisting in the preparation of budgets, monitoring of expenditures, drafting of contracts and purchase or taking orders;
i) assisting the head of unit and other staff with queries of an administrative or organisational nature; and
j) supervising the work of office clerks.

Examples of the occupations classified here: (refer to index; unit group 3342)

3342-01	Legal Secretary

UNIT GROUP 3343 ADMINISTRATIVE AND EXECUTIVE SECRETARIES

Administrative and Executive Secretaries implement and support the communication, documentation and internal managerial coordination activities of an organisational unit to assist the head of unit and other members of staff and/or prepare correspondence, reports and records of proceedings and other specialised documentation.

Tasks include:
a) drafting correspondence and minutes;
b) obtaining, proposing and monitoring deadlines and follow-up dates;
c) screening requests for meetings, scheduling and organising meetings and travel arrangements for the head of unit and other members of staff;
d) assisting in the preparation of budgets, monitoring of expenditures, drafting of contracts and purchase or taking of orders;
e) assisting the head of unit and other staff with queries of an administrative or organisational nature;
f) liaising with other staff about a range of matters relating to organisational operations;
g) writing and answering business or technical letters and other similar correspondence;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3343)

3343-01	Assistant Executive Officer (Secretarial) Grade 31
3343-02	Assistant Executive Officer (Secretarial) Grade 6
3343-03	Assistant Executive Officer (Secretarial) Grade L8
3343-04	Personal Assistant

UNIT GROUP 3344 MEDICAL SECRETARIES

Medical Secretaries using specialised knowledge of medical terminology and procedures, assist the head of unit and other members of staff in implementing and supporting the communication, documentation activities, administrative functions and internal managerial coordination.

Tasks include:
a) scheduling and confirming medical appointments and communicating messages for medical staff and patients;
b) compiling, recording and reviewing medical charts, reports, documents and correspondence;
c) interviewing patients to complete forms, documents and case histories;
d) completing insurance and other claim forms;
e) maintaining medical files and records and the technical library;
f) preparing financial statements and billing procedures;
g) assisting in the preparation of budgets, financial statements and billing procedures;
h) drafting contracts and purchasing or taking orders; and
j) supervising the work of office clerks.

Examples of the occupations classified here: (refer to index; unit group 3344)

3344-01	Medical Secretary
3344-02	Medical Office Administrative Assistant
3344-03	Hospital Ward Secretary
3344-04	Patient Care Secretary

SUB-MAJOR 34 LEGAL ASSOCIATE PROFESSIONALS

Legal Associate Professionals perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, property transfers, granting of loans and other financial transactions or conduct investigations for clients.

Occupations in this sub-major group are classified into the following minor groups:

341 LEGAL ASSOCIATE PROFESSIONALS

MINOR GROUP 341 LEGAL ASSOCIATE PROFESSIONALS

Legal Associate Professionals perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, property transfers, granting of loans and other financial transactions or conduct investigations for clients.

Occupations in this minor group are classified into the following unit groups:

3411 LEGAL AND RELATED ASSOCIATE PROFESSIONALS

UNIT GROUP 3411 LEGAL AND RELATED ASSOCIATE PROFESSIONALS

Legal and Related Associate Professionals perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, property transfers, granting of loans and other financial transactions or conduct investigations for clients.

Tasks include:

a) preparing, recording and issuing court orders including probation orders, release documentation, sentencing information and summonses;
b) making the registry files, reviewing draft orders and writing letters to lawyers on the trial dates;
c) interpreting cases in open court and judge's chamber;
d) registering / recording in the files the proceedings or decisions of the cases that have been tried;
e) preparing daily / monthly reports and ensuring and preparing case files before sending them to the judge;
f) drafting and proofreading, including compiling attendance notes, taking notes at court, proofreading documents, writing letters;
g) preparing litigation bundles and managing case files;
h) performing legal research;
i) liaising with clients (in more senior roles);
j) taking witness statements;
k) managing the implementation of rehabilitation programmes, prevention programmes, drug-related law enforcement and tasks as directed by superiors;
l) performing related tasks; and
m) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3411)

3411-01	Baillif
3411-02	Legal Assistant
3411-03	Conveyancing Clerk
3411-04	Paralegal

SUB-MAJOR 35 INFORMATION AND COMMUNICATIONS TECHNICIANS

Information and Communications Technicians provide support for the running of computer systems, communications systems and networks and perform technical tasks related to telecommunications, broadcast of image and sound as well as other types of telecommunications signals on land, sea or in aircraft.

Occupations in this sub-major group are classified into the following minor groups:

351 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION AND USER SUPPORT TECHNICIANS
352 TELECOMMUNICATIONS AND BROADCASTING TECHNICIANS

MINOR GROUP 351 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION AND USER SUPPORT TECHNICIANS

Information and Communications Technology Operation and User Support Technicians provide support for the running of communications systems, computer systems and networks and provide technical assistance to users.

Occupations in this minor group are classified into the following unit groups:

3511 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION TECHNICIANS
3512 INFORMATION AND COMMUNICATIONS TECHNOLOGY USER SUPPORT TECHNICIANS
3513 COMPUTER NETWORK AND SYSTEMS TECHNICIANS
3514 WEB TECHNICIANS

UNIT GROUP 3511 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION TECHNICIANS

Information and Communications Technology Operation Technicians assist in the day-to-day processing, operation and monitoring of information and communications technology systems, software and related computer equipment to ensure optimal performance.

Tasks include:

a) performing duties encompassing maintenance of computer systems such as preventive maintenance and maintenance of information technology equipment and maintenance of computing applications and operating systems in an organisation;
b) operating and overseeing computer peripherals and related equipment;
c) monitoring systems for equipment failure or errors in performance;
d) informing the supervisor or maintenance technicians of equipment malfunctions;
e) retrieving, separating and sorting program output as needed, and sending data to specified users;
f) loading peripheral equipment, such as printers, with selected materials for operations, or overseeing loading of peripheral equipment by peripheral equipment operators;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3511)

3511-01	Computer Technician Grade FT19
3511-02	Administrative Assistant (Operator Computer) Grade 21
3511-03	Administrative Assistant (Computer Technician) Grade 21
3511-04	Executive Assistant (Information Technology) Grade 3

UNIT GROUP 3512 INFORMATION AND COMMUNICATIONS TECHNOLOGY USER SUPPORT TECHNICIANS

Information and Communications Technology User Support Technicians provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, computer peripheral equipment, networks, databases and the Internet, and provide guidance and support in the deployment, installation and maintenance of systems.

Tasks include:

a) answering user inquiries regarding software or hardware operation to resolve problems;
b) entering commands and observing system functioning to verify correct operations;
c) installing and performing minor repairs to hardware, software or peripheral equipment, following design or installation specifications;
d) overseeing the daily performance of communications and computer systems;
e) setting up equipment for employee use, performing or ensuring proper installation of cables, operating systems, or appropriate software;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3512)

3512-01	Computer Help Desk Technician
3512-02	Personal Computer Support Technician
3512-03	Information Technology Technician
3512-04	Computer Help Desk Operator

UNIT GROUP 3513 COMPUTER NETWORK AND SYSTEMS TECHNICIANS

Computer Network and Systems Technicians establish, operate and maintain network and other data communications systems.

Tasks include:

a) operating, maintaining and troubleshooting network systems;
b) operating and maintaining data communications systems other than network;

c) assisting users with network and data communications problems;
d) identifying areas needing upgraded equipment and software;
e) installing computer hardware, network software, operating system software and application software;
f) performing start up and shut down of systems including backup systems and disaster recovery operations;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3513)

3513-01	Computer Network Technician
3513-02	Network Support Technician
3513-03	Network Security ICT Technician
3513-04	System Security & Application ICT Technician

UNIT GROUP 3514 WEB TECHNICIANS

Web Technicians maintain, monitor and support the optimal functioning of Internet and Intranet websites and web server hardware and software.

Tasks include:
a) installing, monitoring and supporting the reliability and usability of Internet and Intranet websites or web server hardware or software;
b) developing and maintaining documentation, policies and instructions, and recording operational procedures and system logs;
c) developing, coordinating, implementing and monitoring security measures;
d) analysing and making recommendations to enhance performance, including upgrading and acquiring new systems;
e) liaising with and providing guidance to clients and users;
f) modifying web pages;
g) performing web server backup and recovery operations;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3514)

3514-01	Website Technician
3514-02	Web Technician
3514-03	Multimedia Animation

MINOR GROUP 352 TELECOMMUNICATIONS AND BROADCASTING TECHNICIANS

Telecommunications and Broadcasting Technicians control technical functioning of equipment to record and edit images and sound and transmit radio and television broadcasts of images and sounds, as well as other types of telecommunications signals on land, sea or in aircraft, perform technical tasks connected with telecommunications engineering research and with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.

Occupations in this minor group are classified into the following unit groups:

3521 BROADCASTING AND AUDIO-VISUAL TECHNICIANS
3522 TELECOMMUNICATIONS ENGINEERING TECHNICIANS

UNIT GROUP 3521 BROADCASTING AND AUDIO-VISUAL TECHNICIANS

Broadcasting and Audio-Visual Technicians control technical functioning of equipment to record and edit images and sound and transmit radio and television broadcasts of images and sounds, as well as other types of telecommunications signals on land, sea or in aircraft.

Tasks include:
a) handling the installation of audio-visual equipment, providing amplifier facilities and loud audio-visual equipment;
b) carrying out post-production work and copying the collection of media materials, and preparing exhibits and maintaining audio-visual equipment;
c) taking charge of equipment for sound recordings;

d) taking charge of equipment to edit and mix image and sound recordings to ensure satisfactory quality and to create special image and sound effects;
e) applying knowledge of principles and practices of image and sound recording and editing in order to identify and solve problems in the course of work;
f) taking charge of transmitting and broadcast systems and satellite systems for radio and television programmes;
g) taking charge of radio communications systems, satellite services and multiplex systems on land, sea or in aircraft;
h) applying knowledge of principles and practices of broadcasting, telecommunications terminals and transmissions systems in order to identify and solve problems;
i) making repairs to equipment;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3521)

3521-01	Audio-Visual Technician Grade N19
3521-02	Cinematographer
3521-03	Audio-Visual Operator
3521-04	Production Assistant (Media)

UNIT GROUP 3522 TELECOMMUNICATIONS ENGINEERING TECHNICIANS

Telecommunications Engineering Technicians perform technical tasks connected with telecommunications engineering research, as well as with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.

Tasks include:
a) providing technical assistance connected with research and development of telecommunications equipment, or prototype testing;
b) studying technical materials such as blueprints and sketches to determine the method of work to be adopted;
c) preparing detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of telecommunications equipment according to the specifications given;
d) providing technical supervision of the manufacture, utilisation, maintenance and repair of telecommunications systems to ensure satisfactory performance and compliance with specifications and regulations;
e) applying technical knowledge of telecommunications engineering principles and practices in order to identify and solve problems arising in the course of their work;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3522)

3522-01	Aerospace Engineering Technician (Telecommunications)
3522-02	Engineering Technician (Telecomunications)
3522-03	Communications Technician
3522-04	Telecommunications Technician

SUB-MAJOR 36 SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS

Social, Cultural and Related Associate Professionals perform technical tasks related to social work, religious, sports, artistic, cultural and culinary activities.

Occupations in this sub-major group are classified into the following minor groups:

361 SOCIAL AND RELIGIOUS ASSOCIATE PROFESSIONALS
362 SPORTS, SELF DEFENCE AND FITNESS ASSOCIATE PROFESSIONALS
363 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS
364 CULINARY ASSOCIATE PROFESSIONALS

MINOR GROUP 361 SOCIAL AND RELIGIOUS ASSOCIATE PROFESSIONALS

Social and Religious Associate Professionals perform technical tasks related to research and the practical application of concepts, theories, principles and operational methods connected with social work and religion.

Occupations in this minor group are classified into the following unit groups:

3611 SOCIAL WORK ASSOCIATE PROFESSIONALS
3612 RELIGIOUS ASSOCIATE PROFESSIONALS

UNIT GROUP 3611 SOCIAL WORK ASSOCIATE PROFESSIONALS

Social Work Associate Professionals offer clients guidance and implement social assistance programmes and community service and assist clients in dealing with personal and social problems.

Tasks include:

a) collecting information relevant to clients' needs and advising them on their rights and obligations;
b) analysing the client's situation and presenting alternative approaches to resolve problems;
c) planning, evaluating, improving and developing welfare services;
d) helping to prevent child abuse and domestic violence, and assisting people with physical or mental disabilities to obtain adequate treatment and to improve their ability to interact with society;
e) assisting people with disabilities or senior citizens to acquire services and to improve their ability to function in society;
f) compiling case records and preparing reports as required;
g) offering crisis intervention and emergency protective services;
h) conducting living skills workshops, substance abuse treatment programmes, behavioural management programmes, youth and community service programmes as well as social service programmes under the supervision of social workers or health care professionals;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3611)

3611-01	Social Worker
3611-02	Social Worker, Group Work
3611-03	Welfare Officer, Industry
3611-04	Welfare Officer, Probation

UNIT GROUP 3612 RELIGIOUS ASSOCIATE PROFESSIONALS

Religious Associate Professionals provide support to Ministers or to a religious community, undertake religious work, preach and propagate the teachings of a particular religion and endeavour to improve well-being through the power of faith and spiritual advice.

Tasks include:

a) undertaking religious work;
b) preaching and propagating the teachings of a particular religious faith;
c) assisting in worship and religious rites;
d) providing religious education, spiritual guidance and moral support to individuals and communities;
e) administering and participating in programmes to provide food, clothing and shelter to those in need;
f) advising communities and individuals on proper behaviour and faith to preserve and improve well-being;
g) helping to gather materials / books / documents pertaining to the faith;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3612)

3612-01	Monk
3612-02	Nun
3612-03	Preacher
3612-04	Bilal

MINOR GROUP 362 SPORTS, SELF DEFENCE AND FITNESS ASSOCIATE PROFESSIONALS

Sports, Self Defence and Fitness Associate Professionals participate in or conduct public sporting competitions, coach amateur or professional sportspersons to enhance performance, promote participation and standards in sport, organise and officiate at sporting events, and provide instruction, training and supervision for various forms of exercise and other recreational activities.

Occupations in this minor group are classified into the following unit groups:

3621 ATHLETES AND SPORTS PLAYERS
3622 SPORTS COACHES, INSTRUCTORS AND OFFICIALS
3623 FITNESS AND RECREATION INSTRUCTORS AND PROGRAMME LEADERS

UNIT GROUP 3621 ATHLETES AND SPORTS PLAYERS

Athletes and Sports Players participate in competitive sporting events. They train and compete, either individually or as part of a team, in their chosen sport.

Tasks include:
a) participating in competitive sporting events;
b) participating in regular practice and training sessions and undertaking private training to maintain the required standard of fitness and skill;
c) attending sports promotional activities and media interviews;
d) maintaining a high degree of expertise in a particular sport;
e) deciding on strategies in consultation with coaches;
f) assessing other competitors and conditions at venues;
g) competing in sporting events;
h) adhering to the rules and regulations associated with a specific sport;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3621)

3621-01	Sportsperson
3621-02	Athlete
3621-03	Boxer
3621-04	Footballer

UNIT GROUP 3622 SPORTS COACHES, INSTRUCTORS AND OFFICIALS

Sports Coaches, Instructors and Officials work with amateur and professional sportspersons to enhance performance, encourage greater participation in sport, and organise and officiate at sporting events according to established rules.

Tasks include:
a) identifying the strengths and weaknesses of athletes or teams;
b) planning and conducting training sessions;
c) planning and coordinating schedules and programmes;
d) motivating and preparing athletes or teams for competitive events;
e) formulating competitive strategies, developing game plans and directing athletes and players during games or athletic events;
f) analysing and evaluating athletes' or teams' performance and modifying training programmes;
g) monitoring and analysing technique and performance, and determining how future improvements can be made;
h) officiating at sporting events or athletic competitions to maintain standards of play and ensuring that game rules and safety regulations are observed;
i) recording lapsed time and keeping scores during events or competitions;
j) judging the performance of competitors, awarding of points, imposing penalties for infractions and determining results;
k) carrying out programmes and activities related to youth and sports in the ministry / state / department / district;
l) as the marching and physical training instructor, conducting marching and sports activities;
m) compiling scores and other athletic records;
n) performing related tasks; and
o) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3622)

3622-01	Assistant Youth and Sport Officer Grade S29
3622-02	Sports Officials
3622-03	Referee
3622-04	Sports Coach

UNIT GROUP 3623 FITNESS AND RECREATION INSTRUCTORS AND PROGRAMME LEADERS

Fitness and Recreation Instructors and Programme Leaders lead, guide and instruct groups and individuals in recreational, fitness or outdoor adventure activities.

Tasks include:

a) planning and carrying out recreational and fitness activities;
b) monitoring recreational, sports or fitness activities to ensure safety and providing emergency or first aid assistance when required;
c) evaluating and monitoring clients' abilities and fitness and recommending suitable activities;
d) demonstrating and teaching body movements, concepts and skills used in fitness routines and recreational activities;
e) instructing the use of equipment;
f) explaining and enforcing safety procedures, rules and regulations.
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3623)

3623-01	Physical Fitness Instructor
3623-02	Billiard Instructor
3623-03	Chess Instructor
3623-04	Sailing Instructor

MINOR GROUP 363 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS

Artistic and Cultural Associate Professionals combine creative and technical skills with knowledge in taking and processing still photographs; design and decoration of theatre sets, shop displays and the interiors of homes; preparation of objects for display; maintenance of library and gallery collections, record and cataloguing systems; provide support for stage, film and television production; and in other areas of artistic and cultural endeavour.

Occupations in this minor group are classified into the following unit groups:

3631 PHOTOGRAPHERS
3632 INTERIOR DESIGNERS AND DECORATORS
3633 GALLERY, MUSEUM AND LIBRARY ASSOCIATE PROFESSIONALS
3634 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS
3639 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 3631 PHOTOGRAPHERS

Photographers take photographs, operate video cameras and other equipment to record and edit images.

Tasks include:

a) taking photos, editing, preparing captions and sending photographs of formal and informal activities for reference and retention;
b) making film / audio or soundless video coverage, filming a special programme, providing equipment, maintaining the cleanliness of the studio and darkroom as well as ensuring safety of equipment inside and outside the department;
c) consulting with clients to determine the objectives of photography assignments;
d) reviewing the task requirements and choosing the type of camera, film and lighting;
e) carrying out work in the studio or transporting and installing equipment at assigned locations;
f) taking photographs for advertising or other commercial, industrial or scientific purposes and illustrating stories and articles in newspapers, magazines, books and other publications;

g) setting up and operating motion picture cameras, videos, microscopic and other specialised cameras, including those used in aerial photography to record images;
h) taking charge of equipment to edit and mix images to ensure satisfactory quality and to create special images;
i) working with digital technology and manipulating resulting images on computer;
j) applying principles and practices of image and sound recording and editing in order to identify and solve problems arising in the course of their work;
k) performing related tasks; and
l) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: **(refer to index; unit group 3631)**

3631-01	Administrative Assistant (Photographer) Grade 21
3631-02	Photographer
3631-03	Commercial Illustration Photographer
3631-04	News Photographer

UNIT GROUP 3632 INTERIOR DESIGNERS AND DECORATORS

Interior Designers and Decorators plan and design commercial, industrial, public, retail and residential building interiors and design posters and other print materials. They coordinate and participate in construction and decoration.

Tasks include:
a) determining the design by consulting with clients, undertaking research and analysing functional requirements or studying layouts;
b) designing industrial and commercial products, including new types and styles of clothing and accessories and harmonising aesthetic considerations with technical and other requirements;
c) supervising the production of sample products or designing illustrations, instructing other workers in making models or patterns of products, or instructing finishing or layout artists in assembling artwork for printing;
d) creating interior decorating schemes and planning furnishings for houses, public buildings, ships and other places;
e) designing and painting backdrops;
f) creating and executing artistic effects for use in show windows and other display/promotional areas;
g) designing floral arrangements such as wreaths, bouquets and corsages according to customers' preference, purpose, occasion and availability of flowers;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: : **(refer to index; unit group 3632)**

3632-01	Designer Grade B19
3632-02	Interior Designer
3632-03	Furniture Designer
3632-04	Poster Designer

UNIT GROUP 3633 GALLERY, MUSEUM AND LIBRARY ASSOCIATE PROFESSIONALS

Gallery, Museum and Library Associate Professionals prepare works of art, specimens and artefacts for collection, and arrange and coordinate gallery displays.

Tasks include:
a) receiving, reviewing and registering archival materials received, registering archival materials requested for research and reference purposes, archival materials returned and ensuring order and preservation of archival materials under their supervision;
b) carrying out the repair and conservation work (including task binding) all government records in the various forms of book cover files, maps, plans, manuscripts, letters of agreement, letter, pictures and the like;
c) assisting the Assistant Curator to conduct research and gathering museum collections and overseeing the restoration, rehabilitation, preservation and cleaning of museum collections for display;
d) drawing plans of the building, renovation of building, office or laboratory, exhibition hall layout plan, display case, mapping for exploration activities, etc;

e) providing lending services at the library, including interlibrary loan;
f) mounting and preparing objects for display;
g) assisting librarians in the acquisition, preparation and organisation of the information record system;
h) describing, analysing and preserving valuable objects and collections for the benefit of researchers and the public;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3633)

3633-01	Archives Assistant Grade S19
3633-02	Conservation Assistant Grade S19
3633-03	Museum Assistant Grade S19
3633-04	Gallery Technician

UNIT GROUP 3634 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS

Artistic and Cultural Associate Professionals provide support for stage and in other areas of artistic and cultural endeavour.

Tasks include:
a) helping musicians compose songs, play musical instruments for training and performances and being a member of the orchestra;
b) giving performances including dance, singing and acting;
c) assisting directors and performers with the staging of theatre, motion picture, television or commercial productions;
d) performing related tasks; and
e) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3634)

3634-01	Musician Grade B19
3634-02	Artist Cultural Grade B19
3634-03	Musician Grade B29
3634-04	Artist, Cultural B29

UNIT GROUP 3639 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group includes Artistic and Cultural Associate Professionals Not Elsewhere Classified in Minor Group 363: Artistic and Cultural Associate Professionals.

Tasks include:
a) assisting the director and performers in theatre, motion picture, television or commercial production;
b) carrying out related tasks; and
c) supervising, scheduling and monitoring the tasks of other workers.

MINOR GROUP 364 CULINARY ASSOCIATE PROFESSIONALS

Culinary Associate Professionals combine creative and technical skills in the creation of menus, preparation and presentation of food.

Occupations in this minor group are classified into the following unit groups:

3641 CHEFS

UNIT GROUP 3641 CHEFS

Chefs plan menus, cook and create dishes in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.

Tasks include:

a) planning and developing recipes and menus, estimating food and labour costs, and ordering food supplies;
b) monitoring quality of dishes at all stages of preparation and presentation;
c) discussing food preparation issues with managers, dieticians and kitchen staff;
d) instructing cooks and other workers in the preparation, cooking, garnishing and presentation of food;
e) supervising preparation and cooking of food, and instructing cooks as required;
f) preparing special dishes and inventing recipes;
g) testing cooked food by tasting or smelling it;
h) requisitioning or purchasing food supplies and kitchen equipment as necessary and checking them for quality and quantity;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: : **(refer to index; unit group 3641)**

3641-01	Sous Chef
3641-02	Chef De Partie
3641-03	Senior Chef
3641-04	Chef

SUB-MAJOR 37 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

Regulatory Government Associate Professionals assist regulatory body professionals in administering, enforcing or applying relevant government rules and regulations relating to national borders, taxes, social benefits, and certify or examine applications for licences or authorisation in connection with travel, exports and imports of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

Occupations in this sub-major group are classified into the following minor groups:

371 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

MINOR GROUP 371 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

Regulatory Government Associate Professionals assist regulatory body professionals in administering, enforcing or applying relevant government rules and regulations relating to national borders, taxes, social benefits, and certify or examine applications for licences or authorisation in connection with travel, exports and imports of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

Occupations in this minor group are classified into the following unit groups:

3711 CUSTOMS AND BORDER INSPECTOR ASSOCIATE PROFESSIONALS
3712 TAXATION AND EXCISE OFFICIAL ASSOCIATE PROFESSIONALS
3713 GOVERNMENT SOCIAL BENEFIT OFFICIAL ASSOCIATE PROFESSIONALS
3714 GOVERNMENT LICENSING OFFICIAL ASSOCIATE PROFESSIONALS
3715 POLICE OFFICERS
3716 CIVIL DEFENCE ASSOCIATE PROFESSIONALS
3719 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 3711 CUSTOMS AND BORDER INSPECTOR ASSOCIATE PROFESSIONALS

Customs and Border Inspector Associate Professionals assist in checking persons and vehicles crossing national borders to administer and enforce relevant government regulations and laws.

Tasks include:

a) examining immigration applications, visas and passports and interviewing persons to determine eligibility for admission, residence and travel in the country;
b) detaining persons found to be in violation of customs or immigration laws and arranging for legal action such as deportation;
c) searching and seizing contraband or undeclared merchandise and vehicles, aircraft or boats containing such as merchandise;

d) interpreting and explaining laws and regulations to travellers, prospective immigrants, shippers and manufacturers;
e) collecting sample merchandise for examination, appraisal or testing; and
f) inspecting cargo, baggage and personal articles entering or leaving the country.

Examples of the occupations classified here: (refer to index; unit group 3711)

3711-01	Custom Inspector
3711-02	Custom and Border Inspector
3711-03	Border Inspector
3711-04	Passport Checking Officer

UNIT GROUP 3712 TAXATION AND EXCISE OFFICIAL ASSOCIATE PROFESSIONALS

Taxation and Excise Official Associate Professionals assist in examining tax returns, bills of sale and other documents to determine the type and amount of taxes, duties and other types of fees to be paid by individuals or businesses.

Tasks include:
a) applying tax legislation to companies, partnerships, organisations and individuals;
b) examining accounts and researching background of materials;
c) investigating fraud;
d) giving expert advice on taxation matters to companies, partnerships, organisations and individuals;
e) negotiating tax settlements with taxpayers and/or accountants;
f) reviewing the finances of a business to find out exactly how it operates;
g) visiting business premises and meeting people face to face during investigations;
h) reviewing in detail aspects of the business accounts to ensure that the tax law has been applied correctly;
i) presenting a case in correspondence, and in person, with taxpayers or their professional advisers, accountants or lawyers;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3712)

3712-01	Assistant Executive Officer (Appraiser) Grade 31
3712-02	Assistant Executive Officer, Appraiser

UNIT GROUP 3713 GOVERNMENT SOCIAL BENEFIT OFFICIAL ASSOCIATE PROFESSIONALS

Government Social Benefit Official Associate Professionals assist in examining applications for government, financial or service programmes to determine eligibility and amount of benefit or appropriate services.

Tasks include:
a) assisting in enforcing related procedure of regulations and laws on social organisations;
b) providing social security protection through social insurance for the individual, family and society for their human rights and safety;
c) performing related tasks; and
d) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3713)

3713-01	Social Security Claims Assistant Officer

UNIT GROUP 3714 GOVERNMENT LICENSING OFFICIAL ASSOCIATE PROFESSIONALS

Government Licensing Official Associate Professionals examine applications for licences to export or import goods, set up businesses, build houses or other structures, or to obtain passports, determine eligibility of applications for issuing licences or passports, and identify specific conditions or restrictions to be attached to licences issued.

Tasks include:
a) interpreting and explaining related procedures, regulations and laws;
b) advising individuals on the law and government regulations on the types of licences required and the conditions attached to the licences, and the rights and obligations of the public;
c) examining applications and related documents and determining whether a licence shall be granted and the conditions to be attached;
d) examining applications and approving the issue of passports;
e) carrying out administrative tasks related to the application process, document activities, evaluation and determination, and preparation of correspondence to inform applicants of licensing decisions;
f) carrying out the necessary tests on licence applicants; and
g) enforcing procedures, regulations and laws.

Examples of the occupations classified here: (refer to index; unit group 3714)

3714-01	Licensing Inspector
3714-02	Assistant Enforcement Officer Grade KP29
3714-03	Assistant Executive Officer (Enforcement) Grade L8

UNIT GROUP 3715 POLICE OFFICERS

Police Officers investigate, prevent and solve criminal cases.

Tasks include:
a) performing police duties including patrolling to prevent crime and gathering security intelligence, apprehending, guarding, escorting offenders, controlling traffic, patrolling the seas and air to protect the nation's waters in order for the people and nation to enjoy peace and tranquillity;
b) investigating alleged or suspected criminal violation of federal, state or local laws to determine if evidence is sufficient to recommend prosecution;
c) preparing charges, responses to charges, or information for court cases according to formal procedures;
d) taking notes, marking and photographing location of objects found, such as footprints, tyre tracks, bullets and bloodstains, and taking measurements of the scene;
e) restricting or roping off the crime scene and checking the perimeter to ensure the entire area is secured; and
f) seeking medical assistance for injured individuals and reminding medical personnel to take statements from them.

Examples of the occupations classified here: (refer to index; unit group 3715)

3715-01	Police Inspector
3715-02	Police Detective
3715-03	Police Officer
3715-04	Police Inquiry Agent

UNIT GROUP 3716 CIVIL DEFENCE ASSOCIATE PROFESSIONALS

Civil Defence Associate Professionals supervise and investigate civil cases by enforcing laws procedures and regulations.

Tasks include:
a) carrying out intelligence tasks in assisting the Malaysian Armed Forces;
b) enforcing procedures of related regulations and laws;
c) investigating fraud; and
d) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 3716)

3716-01	Civil Service Inspector
3716-02	Government Administration Inspector
3716-03	RELA Officer
3716-04	Territorial Army

UNIT GROUP 3719 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Regulatory Government Associate Professionals Not Elsewhere Classified in Minor Group 371: Regulatory Government Associate Professionals. As an example, this group include other rank Maritime Enforcement Officers Grade T5, Price Inspector, Fire and Safety Inspector and Weight and Measure Inspector.

Tasks include:

a) interpreting and explaining related procedures regulation and laws;
b) preventing and enforcing abuse of power;
c) investigating fraud;
d) enforcing procedures, regulations and laws;
e) registering job seekers, advising / counselling about job opportunities, renewing registration, providing data on job vacancies in the register of employers as well as conducting progress visits to newly approved employers / enterprises;
f) processing applications for Identity Card, Birth Certificate, Death Certificate, Adoption Certificate, Citizenship Certificate, Marriage and Divorce Certificates and Certificate of Amendment of Details and other related tasks; and
g) performing related tasks.

Examples of the occupations classified here: **(refer to index; unit group 3719)**

3719-01	Maritime Enforcement Officers Other Ranks, Grade T5
3719-02	Price Inspector
3719-03	Fire and Safety Inspector
3719-04	Weight and Measures Inspector

MAJOR GROUP 4

CLERICAL SUPPORT WORKERS

CLERICAL SUPPORT WORKERS

4

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

41 OFFICE CLERKS

411 GENERAL OFFICE CLERKS

4111 GENERAL OFFICE CLERKS

412 SECRETARIES (GENERAL)

4121 SECRETARIES (GENERAL)

413 KEYBOARD OPERATORS

4131 TYPISTS
4132 DATA ENTRY CLERKS

42 CUSTOMER SERVICES CLERKS

421 TELLERS, MONEY COLLECTORS AND RELATED CLERKS

4211 BANK TELLERS AND RELATED CLERKS
4212 BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS
4213 PAWNBROKERS AND MONEY-LENDERS
4214 DEBT AND RENT COLLECTORS AND RELATED WORKERS

422 CLIENT INFORMATION WORKERS

4221 TRAVEL CONSULTANTS AND RELATED CLERKS
4222 CONTACT CENTRE INFORMATION CLERKS
4223 TELEPHONE OPERATORS
4224 RECEPTIONISTS
4225 ENQUIRY CLERKS
4226 SURVEY AND MARKET RESEARCH INTERVIEWERS
4229 CLIENT INFORMATION WORKERS NOT ELSEWHERE CLASSIFIED

43 NUMERICAL AND MATERIAL RECORDING CLERKS

431 NUMERICAL CLERKS

4311 ACCOUNTING, AUDITING AND BOOK-KEEPING CLERKS
4312 STATISTICAL, FINANCE AND INSURANCE CLERKS
4313 PAYROLL CLERKS

432 MATERIAL-RECORDING AND TRANSPORT CLERKS

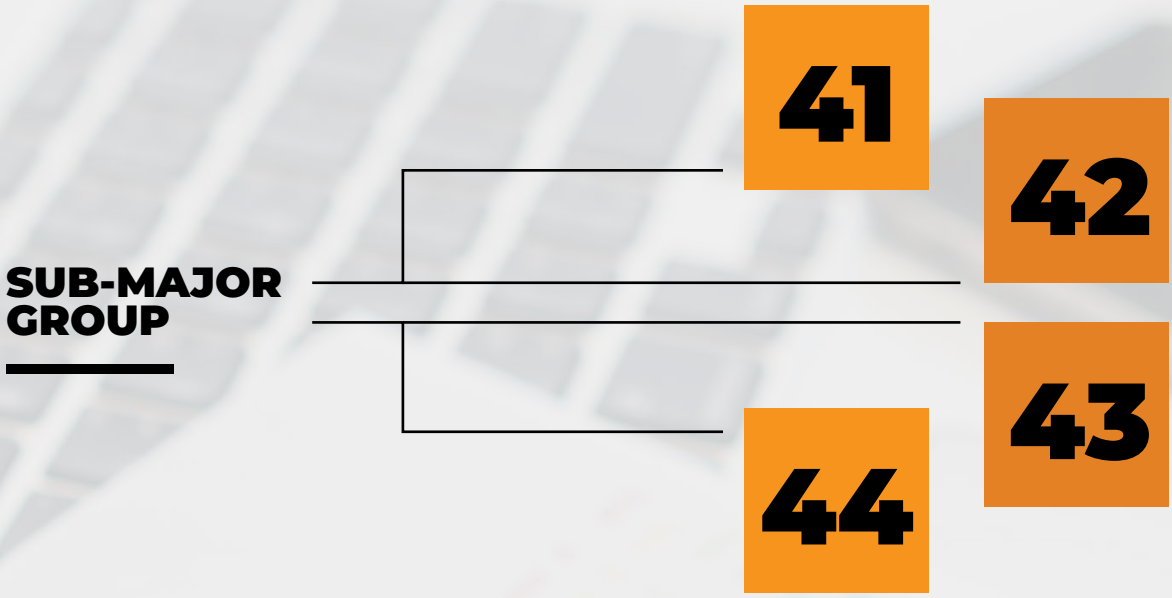
4321 STOCK CLERKS
4322 PRODUCTION CLERKS
4323 TRANSPORT CLERKS

44 OTHER CLERICAL SUPPORT WORKERS

441 OTHER CLERICAL SUPPORT WORKERS

4411 LIBRARY CLERKS
4412 MAIL CARRIERS AND SORTING CLERKS
4413 CODING, PROOF-READING AND RELATED CLERKS
4414 SCRIBES AND RELATED WORKERS
4415 FILING AND COPYING CLERKS
4416 PERSONNEL CLERKS
4419 CLERICAL SUPPORT WORKERS NOT ELSEWHERE CLASSIFIED

CLERICAL SUPPORT WORKERS



41 OFFICE CLERKS
42 CUSTOMER SERVICES CLERKS
43 NUMERICAL AND MATERIAL RECORDING CLERKS
44 OTHER CLERICAL SUPPORT WORKERS

CLERICAL SUPPORT WORKERS

Description

Record, organise, store and retrieve related information and perform clerical duties especially in connection with administrative operations, handling of money, travel arrangements and requests for information and appointments

Skills level

Most occupations in this major group require skills at the second level

Occupations in this major group are classified into the following sub-major groups:

41 OFFICE CLERKS
42 CUSTOMER SERVICES CLERKS
43 NUMERICAL AND MATERIAL RECORDING CLERKS
44 OTHER CLERICAL SUPPORT WORKERS

SUB-MAJOR 41 OFFICE CLERKS

Office Clerks record, organise, store and retrieve related information and perform a range of clerical and administrative tasks according to established procedures.

Occupations in this sub-major group are classified into the following minor groups:

411 GENERAL OFFICE CLERKS
412 SECRETARIES (GENERAL)
413 KEYBOARD OPERATORS

MINOR GROUP 411 GENERAL OFFICE CLERKS

General Office Clerks perform a range of clerical and administrative tasks according to established procedures.

Occupations in this minor group are classified into the following unit groups:

4111 GENERAL OFFICE CLERKS

UNIT GROUP 4111 GENERAL OFFICE CLERKS

General Office Clerks perform a range of clerical and administrative tasks according to established procedures.

Tasks include:

a) carrying out clerical duties including maintenance of files / documents, calculations, preparation of monthly reports and statistical reports;
b) recording, preparing, sorting, classifying and filing information;
c) sorting, opening and sending mail;
d) photocopying and faxing documents;
e) preparing reports of a routine nature;
f) recording issue of equipment to staff;
g) responding to telephone or electronic enquiries or forwarding them to appropriate persons;
h) assisting in customer service tasks;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: **(refer to index; unit group 4111)**

4111-01	Administrative Assistant (Clerical/ Operation) Grade N19
4111-02	Land Administrative Assistant Grade NT19
4111-03	Administrative Assistant (Designer) Grade 21
4111-04	Administrative Assistant (Clerk) Grade 21

MINOR GROUP 412 SECRETARIES (GENERAL)

Secretaries (General) use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for meetings or appointments, and perform a variety of administrative support tasks.

Occupations in this minor group are classified into the following unit groups:

4121 SECRETARIES (GENERAL)

UNIT GROUP 4121 SECRETARIES (GENERAL)

Secretaries (General) use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for meetings or appointments, and perform a variety of administrative support tasks.

Tasks include:

a) checking, formatting and transcribing correspondence, minutes and reports from dictation, electronic documents or written drafts to conform to office standards using the typewriter or other word processing equipment;
b) using various computer software packages including spreadsheets to provide administrative support;
c) dealing with incoming or outgoing mail;
d) checking, recording and distributing mail, correspondence and documents;
e) screening requests for meetings or appointments and helping to organise meetings;
f) screening and recording leave and other staff members' entitlements;
g) organising and supervising filing systems;
h) dealing with routine correspondence;
i) taking shorthand, typing and managing file movement;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4121)

4121-01	Office Secretary Grade N29
4121-02	Assistant Office Secretary Grade N19
4121-03	Administrative Assistant (Secretarial) Grade 21
4121-04	Executive Assistant (Secretarial) Grade 3

MINOR GROUP 413 KEYBOARD OPERATORS

Keyboard Operators input and process text and data, and prepare, edit and generate documents for storage, process, publication and transmission.

Occupations in this minor group are classified into the following unit groups:

4131 TYPIST
4132 DATA ENTRY CLERKS

UNIT GROUP 4131 TYPISTS

Typist type, edit and print using a typewriter, personal computer or other word processor, and record oral or written matter in shorthand.

Tasks include:

a) typing written material from rough drafts, corrected copies, voice recordings or shorthand using a computer, word processor or typewriter;
b) checking completed work to ensure correct spelling, grammar, punctuation and formatting;
c) gathering and arranging the material to be typed following instructions;
d) filing and storing completed documents on computer hard drive or disk, or maintaining a computer filing system to store, retrieve or update documents;

e) taking dictation and recording other matters in shorthand;
f) photocopying and answering telephone calls or receiving clients;
g) transcribing information recorded in shorthand and on sound recording equipment;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4131)

4131-01	Typist
4131-02	Stenographer
4131-03	Audio Typist
4131-04	General Assistant Typist

UNIT GROUP 4132 DATA ENTRY CLERKS

Data Entry Clerks enter codes, statistical, financial and other numerical data into electronic equipment, computerised databases, spreadsheets or other data repositories using a keyboard, mouse or optical scanner, or other data entry tools. They enter data into mechanical and electronic devices to perform mathematical calculations.

Tasks include:
a) receiving and registering invoices, forms, records and other documents for data capture;
b) entering numerical and other data from source material into storage and processing devices;
c) checking, correcting and updating entered data, if needed;
d) performing bookkeeping and operating calculating machine;
e) establishing/storing fingerprint data and files and preparing and typing correspondence relating to fingerprints received;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4132)

4132-01	Index Clerk
4132-02	Records Clerk
4132-03	Information Technology General Assistant (Data-Processing Machine Operator)
4132-04	Computer Data Entry Clerk

SUB-MAJOR 42 CUSTOMER SERVICES CLERKS

Customer Services Clerks deal with clients in money-handling operations, travel arrangements, requests for information, making appointments and operating telephone switchboards, and interviews for surveys or to complete applications for eligibility for services.

Occupations in this sub-major group are classified into the following minor groups:

421 TELLERS, MONEY COLLECTORS AND RELATED CLERKS
422 CLIENT INFORMATION WORKERS

MINOR GROUP 421 TELLERS, MONEY COLLECTORS AND RELATED CLERKS

Tellers, Money Collectors and Related Clerks perform money-handling operations in establishments related with banking, postal services, betting or gambling, pawning and debt-collecting.

Occupations in this minor group are classified into the following unit groups:

4211 BANK TELLERS AND RELATED CLERKS
4212 BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS
4213 PAWNBROKERS AND MONEY-LENDERS
4214 DEBT AND RENT COLLECTORS AND RELATED WORKERS

UNIT GROUP 4211 BANK TELLERS AND RELATED CLERKS

Bank Tellers and Related Clerks deal directly with clients of banks or post offices in matters related to receiving, changing and paying out money, or providing mail services.

Tasks include:

a) processing customer cash deposits and withdrawals, cheques, transfers, bills, credit card payments, money orders, certified cheques and other related banking transactions;
b) paying bills and making money transfers on clients' behalf;
c) crediting and debiting clients' accounts;
d) exchanging currency as requested by clients;
e) making records of all transactions and reconciling them with the cash balance;
f) receiving mail, selling postage stamps and conducting other post office counter business such as bill payments, money transfers and related business;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4211)

4211-01	Postal Clerk
4211-02	Bank Teller
4211-03	Cash Counter Clerk
4211-04	Money Changer

UNIT GROUP 4212 BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS

Bookmakers, Croupiers and Related Gaming Workers run the games, deal cards, collect bets, pay winners of bets, gambling or related games.

Tasks include:

a) determining risks to decide odds and to hedge or refuse bets;
b) preparing and issuing lists of approximate odds;
c) dealing cards or slips, throwing dice or spinning the roulette wheel;
d) explaining and interpreting the operating rules of a gambling establishment;
e) announcing winning numbers, paying winners and collecting payments from losers;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4212)

4212-01	Betting Counter Clerk
4212-02	Bookmaker Clerk
4212-03	Croupier
4212-04	Casino Clerk

UNIT GROUP 4213 PAWNBROKERS AND MONEY-LENDERS

Pawnbrokers and Money-Lenders lend money against articles deposited as pledges, or against property or other security.

Tasks include:

a) evaluating articles offered as pledges, calculating interest and lending money;
b) returning articles when the loan is paid or, in the event of non-payment, selling pledged articles;
c) lending money as personal loan against future revenue and other similar undertakings;
d) making independent investigations into creditors' financial standing to determine risk in giving loan;
e) collecting repayments in accordance with agreed terms;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4213)

4213-01	Pawnbroker
4213-02	Money-Lender

UNIT GROUP 4214 DEBT AND RENT COLLECTORS AND RELATED WORKERS

Debt and Rent Collectors and Related Workers collect rent, payments on overdue accounts and bad cheques, and collect donations for charity.

Tasks include:
a) communicating with customers via telephone or letter to collect money or arrange payment at a later date;
b) finding the address of clients and calling on them to collect debts;
c) recording the amount of money collected;
d) recommending legal action or initiating seizure of merchandise if payment is not obtained;
e) asking for and collecting donations;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4214)

4214-01	Payment Collector
4214-02	Bill Collector
4214-03	Charity Collector
4214-04	Debt Collector

MINOR GROUP 422 CLIENT INFORMATION WORKERS

Client Information Workers provide or obtain information directly from customers via telephone or electronic means such as e-mail related to making travel arrangements, describing the products or services of the organisation, registering staying guests, greeting visitors, making appointments, connecting telephone calls and interviewing respondents in a survey.

Occupations in this minor group are classified into the following unit groups:

4221 TRAVEL CONSULTANTS AND RELATED CLERKS
4222 CONTACT CENTRE INFORMATION CLERKS
4223 TELEPHONE OPERATORS
4224 RECEPTIONISTS
4225 ENQUIRY CLERKS
4226 SURVEY AND MARKET RESEARCH INTERVIEWERS
4229 CLIENT INFORMATION WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 4221 TRAVEL CONSULTANTS AND RELATED CLERKS

Travel Consultants and Related Clerks supply information, arrange travel itineraries, make travel and accommodation reservations and organise group tours.

Tasks include:
a) obtaining information about the cost and convenience of different types of transport and accommodation, ascertaining customers' requirements and advising them on travel arrangements;
b) preparing itineraries;
c) making and confirming reservations;
d) issuing tickets and vouchers;
e) helping customers in obtaining the necessary travel documents such as visas;
f) preparing bills and receiving payments;
g) organising group tours;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4221)

4221-01	Travel Consultant
4221-02	Travel Coordinator
4221-03	Travel Agency Clerk
4221-04	Booking Clerk

UNIT GROUP 4222 CONTACT CENTRE INFORMATION CLERKS

Contact Centre Information Clerks provide advice and information to clients, respond to clients' queries regarding an organisation's goods, services or policies and process financial transactions via telephone or electronic communications media such as e-mail. They are located in premises that may be far from clients.

Tasks include:

a) taking charge of incoming calls and messages from clients either responding to queries, handling calls about services or sorting complaints;
b) issuing invoices or handling payments, if necessary;
c) sending letters, information sheets and other documents to clients;
d) advising clients of additional products or services;
e) dealing with telephone requests for information or appointments;
f) directing clients or patients to the appropriate location or person;
g) taking any form of complaint or feedback from customers which is related to organisational operation and services;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4222)

4222-01	Information Assistant Grade S19
4222-02	Appointments Clerk
4222-03	Customer Service Supervisor
4222-04	Call Centre Clerk

UNIT GROUP 4223 TELEPHONE OPERATORS

Telephone Operators operate telephone switchboards and consoles to establish telephone connections, receive caller inquiries and service problem reports, and record and deliver messages to staff or clients.

Tasks include:

a) operating switchboards and consoles to connect, hold, transfer and disconnect telephone calls;
b) connecting outgoing calls;
c) dealing with telephone inquiries and recording messages;
d) forwarding messages to staff or clients;
e) investigating operating system problems and informing about repair services;
f) receiving and connecting incoming and outgoing calls of all staff, making reports o damages and listing trunk calls made by staff;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4223)

4223-01	Telecommunication Service Operator
4223-02	Private Branch Exchange Telephone Operator
4223-03	Telephone Exchange Telephone Operator
4223-04	Telephonist

UNIT GROUP 4224 RECEPTIONISTS

Receptionists receive and welcome visitors, clients, guests or patients and respond to queries and requests including arranging appointments as well as provide information on hotel or organisational services.

Tasks include:

a) receiving and welcoming visitors, guests, clients or patients;
b) making appointments for clients or patients;
c) handling telephone requests for information or appointments;
d) compiling and checking guest accounts for changes using a computerised or manual system;
e) receiving and forwarding messages in person or by telephone or telephone switchboard;
f) maintaining an inventory of rooms available for occupancy, handling reservations and assigning rooms;
g) registering new guests, assigning rooms, verifying customer credit and handing over room keys;
h) providing information about facilities available and making room reservations;
i) responding to guests' requests for housekeeping and maintenance services as well as complaints;
j) reviewing statements of charges to departing guests and receiving payment;
k) supplying information pamphlets, brochures or forms;
l) performing related tasks; and
m) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4224)

4224-01	Receptionist
4224-02	Medical Receptionist
4224-03	Dental Receptionist
4224-04	Telephone Receptionist

UNIT GROUP 4225 ENQUIRY CLERKS

Enquiry Clerks respond to personal, written, electronic mail and telephone queries and complaints about the organisation's goods, services and policies, provide information and refer people to other sources. They are assigned to locations which place them in direct contact with clients.

Tasks include:

a) handling telephone calls efficiently;
b) providing information about the services offered by the agency, and assisting customers / guests in settling issues arising;
c) recording and tracking complaints until conclusion of the matter and notifying customers / guests from time to time of the progress in settling their complaints;
d) answering queries about services and policies and providing information facilities available, location, price and related issues;
e) receiving, attending to and recording information about queries and complaints;
f) referring complex queries to team leaders or expert advisers;
g) issuing relevant forms, information kits and brochures to interested parties;
h) attending to counter duties and general queries;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4225)

4225-01	Administrative Assistant (Customer Services) Grade 21
4225-02	Customer Service Officer Grade N19
4225-03	Customer-Complaints Clerk
4225-04	Inquiries Clerk

UNIT GROUP 4226 SURVEY AND MARKET RESEARCH INTERVIEWERS

Survey and Market Research Interviewers interview people and record their responses to survey and market research questions on a range of topics.

Tasks include:
a) contacting individuals by telephone or in person and explaining the purpose of the interview;
b) interviewing the public for opinions on topics such as public or consumer issues;
c) asking questions in accordance with the guideline on questionnaires and surveys;
d) recording responses on paper or entering responses directly into a computer database;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4226)

4226-01	Market Research Interviewer
4226-02	Survey Interviewer

UNIT GROUP 4229 CLIENT INFORMATION WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Client Information Workers Not Elsewhere Classified in Minor Group 422: Client Information Workers. This group include Hospital Admissions Clerk, Eligibility Interviewer and Eligibility Specialist.

Tasks include:
a) interviewing patients to obtain and process information required to provide hospital services;
b) interviewing applicants for public assistance to gather information related to their application;
c) verifying the accuracy of information provided;
d) initiating procedures to grant, modify, deny or terminate assistance;
e) providing information and answering questions concerning benefits and claim procedures;
f) referring patients or applicants to other organisations if they are ineligible for services;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4229)

4229-01	Hospital Admissions Clerk
4229-02	Eligibility Interviewer
4229-03	Eligibility Specialist

SUB-MAJOR 43 NUMERICAL AND MATERIAL RECORDING CLERKS

Numerical and Material Recording Clerks receive, compile and compute accounting, bookkeeping, statistical, financial and other numerical data, and take charge of cash transactions incidental to business matters. Some occupations classified here keep records of goods produced, purchased, stocked, dispatched, and of materials needed at specified production dates, or keep records of operational aspects and coordinate the timing of passenger and freight transport.

Occupations in this sub-major group are classified into the following minor groups:

431 NUMERICAL CLERKS
432 MATERIAL-RECORDING AND TRANSPORT CLERKS

MINOR GROUP 431 NUMERICAL CLERKS

Numerical Clerks receive, compile and compute accounting, bookkeeping, statistical, financial and other numerical data, and take charge of cash transactions incidental to business matters.

Occupations in this minor group are classified into the following unit groups:

4311 ACCOUNTING AND BOOK-KEEPING CLERKS
4312 STATISTICAL, FINANCE AND INSURANCE CLERKS
4313 PAYROLL CLERKS

UNIT GROUP 4311 ACCOUNTING AND BOOK-KEEPING CLERKS

Accounting and Book-Keeping Clerks compute, classify and record numerical data to keep complete financial records. They perform any combination of routine calculating, notification and verifying duties to obtain primary financial data for use in management of accounting records.

Tasks include:

a) checking figures, notification and documents for correct information, mathematical accuracy and proper codes;
b) operating computers programmed with accounting software to record, store, and analyse information;
c) classifying, recording and summarising numerical and financial data to compile and keep financial records using journals and ledgers or computers;
d) calculating, preparing and issuing bills, invoices, account statements and other financial statements according to established procedures;
e) compiling statistical, financial, accounting or audit reports and tables pertaining to such matters as cash receipts, expenditures, payable and receivable accounts, and profits and losses;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4311)

4311-01	Administrative Assistant (Accounting) Grade 21
4311-02	Executive Assistant (Accounting) Grade 3
4311-03	Ledger Clerk
4311-04	Book-keeping Machine Clerk

UNIT GROUP 4312 STATISTICAL, FINANCE AND INSURANCE CLERKS

Statistical, Finance and Insurance Clerks obtain, compile and compute statistical or actuarial data or perform clerical tasks related to the transactions of insurance, bank and other financial establishments.

Tasks include:

a) obtaining and compiling statistical or actuarial data based on routine or special sources of information;
b) preparing and updating the annual budget;
c) managing and controlling allocation;
d) maintaining records and prepare expenditure reports;
e) calculating totals, averages, percentages and other details and presenting them in tabular form as required;
f) preparing financial documents and calculating interest or brokerage charges and stamp duties payable;
g) maintaining records of bonds, shares and other securities bought or sold on behalf of clients or the employer;
h) preparing samples, questionnaires, collecting data and preparing the census report;
i) performing related tasks; and
j) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4312)

4312-01	Administrative Assistant (Finance) Grade W19
4312-02	Executive Assistant (Finance) Grade 3
4312-03	Statistical Clerk
4312-04	Social and Economic Data Enumerator

UNIT GROUPS 4313 PAYROLL CLERKS

Payroll Clerks collect, verify and process payroll information and compute wages and benefit eligibility for employees in a department, company or other establishment.

Tasks include:

a) managing records of employee attendance, leave and overtime to calculate wages and benefit eligibility using manual or computerised systems;

b) preparing and verifying statements of earnings of employees, indicating gross and net salaries and deductions such as taxes, union dues, garnishments and insurance and pension plans;
c) preparing employee payments and benefit payments by cheque or electronic transfer;
d) reviewing time sheets, work charts, wage computation and other information to detect and reconcile payroll discrepancies;
e) verifying attendance, hours worked, and pay adjustments, and entering information into designated records;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4313)

4313-01	Payroll Clerk
4313-02	Wages Clerk
4313-03	Paymaster
4313-04	Payroll Processor

MINOR GROUP 432 MATERIAL-RECORDING AND TRANSPORT CLERKS

Material-Recording and Transport Clerks keep records of goods produced, purchased, stocked, dispatched and of materials needed at specified production dates, or keep records of operational aspects and coordinate the timing of passenger and freight transport.

Occupations in this minor group are classified into the following unit groups:

4321 STOCK CLERKS
4322 PRODUCTION CLERKS
4323 TRANSPORT CLERKS

UNIT GROUP 4321 STOCK CLERKS

Stock Clerks maintain records of goods produced and production materials received, weighed, issued, dispatched or kept in stock.

Tasks include:
a) arranging and controlling receipt and dispatch of goods and keeping relevant records;
b) maintaining stock records, verifying issue of goods, estimating needs and making requisitions for new stocks;
c) receiving, storing and issuing tools, spare parts or various equipment and maintaining relevant records;
d) weighing goods received, issued, produced or dispatched and maintaining relevant records;
e) maintaining an inventory of furniture and other items received for storage;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4321)

4321-01	Raw Material Clerk
4321-02	Supply Clerk
4321-03	Warehouse Clerk
4321-04	Receiving Clerk

UNIT GROUP 4322 PRODUCTION CLERKS

Production Clerks compute and ensure goods/operations are available on specified dates, and prepare and check production operation schedules.

Task include:
a) examining customers' orders for goods and services;
b) computing quantities, qualities and types of materials required for production;
c) preparing production schedules, ensuring materials are available when needed and keeping related records;
d) preparing or assisting in preparing production schedules based on customers' orders and production capacity;

e) verifying stocks, arranging deliveries and investigating delays;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4322)

4322-01	Clerk, Production
4322-02	Clerk, Production Control
4322-03	Clerk, Operation
4322-04	Clerk, Plantation

UNIT GROUP 4323 TRANSPORT CLERKS

Transport Clerks keep records of operational aspects and coordinate the timing of rail, road, air and waterborne passenger and freight transport, and prepare reports for the management.

Tasks include:
a) keeping record of operational aspects and coordinating the timing of passenger and freight transport;
b) directing train routes within a division or zone of a railway system and keeping related records;
c) directing, controlling and keeping records of freight handling at the rail yard;
d) coordinating and keeping records of operational activities concerning road transport such as allocation and scheduling of vehicles and drivers, loading and unloading of vehicles and storage of goods in transit;
e) coordinating and keeping records of operational activities concerning air and water transport of passengers and freight such as passenger lists and freight manifests;
f) preparing reports for the management;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4323)

4323-01	Logistic Clerk
4323-02	Transport Clerk
4323-03	Claim Clerk, Transportation
4323-04	Control Clerk, Train

SUB-MAJOR 44 OTHER CLERICAL SUPPORT WORKERS

Other Clerical Support Workers perform clerical duties in newspaper companies, courts, libraries and post offices, file documents, prepare information for processing, maintain personnel records, check material to ensure consistency with original source and write on behalf of illiterate persons.

Occupations in this sub-major group are classified into the following minor groups:

441 OTHER CLERICAL SUPPORT WORKERS

MINOR GROUP 441 OTHER CLERICAL SUPPORT WORKERS

Other Clerical Support Workers perform clerical duties in newspaper companies, courts, libraries and post offices, file documents, prepare information for processing, check material to ensure consistency with original source, maintain personnel records and write on behalf of illiterate persons.

Occupations in this minor group are classified into the following unit groups:

4411 LIBRARY CLERKS
4412 MAIL CARRIERS AND SORTING CLERKS
4413 CODING, PROOF-READING AND RELATED CLERKS
4414 SCRIBES AND RELATED WORKERS
4415 FILING AND COPYING CLERKS
4416 PERSONNEL CLERKS
4419 CLERICAL SUPPORT WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 4411 LIBRARY CLERKS

Library Clerks issue and receive library materials, sort and organise books on shelves and provide general library information to users.

Tasks include:

a) issuing and receiving library books and other materials;
b) reshelving books and other library materials;
c) performing clerical activities such as manual and electronic filing, word processing and typing;
d) maintaining journal subscriptions;
e) assisting library users in accessing basic library materials and making inter-library loans;
f) maintaining library records related to the acquisition, issue and return of books and other publications;
g) performing related tasks; and
h) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4411)

4411-01	Administrative Assistant (Library) Grade 21
4411-02	Executive Assistant (Library) Grade 3
4411-03	Library Clerk
4411-04	Library File Compiler

UNIT GROUP 4412 MAIL CARRIERS AND SORTING CLERKS

Mail Carriers and Sorting Clerks sort, record, deliver and perform other duties related to mail services from post offices or related organisations as well as from within an establishment.

Tasks include:

a) performing mail-handling duties in post offices;
b) sorting and delivering mail to private houses and elsewhere;
c) sorting and keeping simple records of incoming and outgoing correspondence and dispatching outgoing mail in various establishments;
d) serving summonses on the defendant and obtaining recipient's signature;
e) performing related tasks; and
f) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4412)

4412-01	Postman/Woman
4412-02	Clerk, Mail Dispatch
4412-03	Assistant, Mail Dispatch
4412-04	Process Dispatch

UNIT GROUP 4413 CODING, PROOF-READING AND RELATED CLERKS

Coding, Proof-Reading and Related Clerks convert information into codes, verify and correct proofs and perform various clerical duties.

Tasks include:

a) converting information into codes and classifying information by codes for data processing purposes;
b) comparing proofs of texts and related material prepared for printing with original material, correcting errors and marking texts for printer in accordance with the requirements set;
c) sorting forms and marking them with identification numbers;
d) sorting documents for filing or to collate sets of pages;
e) internal proof-reading for printing, supervising printing work, compilation and binding;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4413)

4413-01	Proof-Reader Clerk
4413-02	Coding Clerk, Data-Processing
4413-03	Publication Clerk
4413-04	Coding Clerk

UNIT GROUP 4414 SCRIBES AND RELATED WORKERS

Scribes and Related Workers write letters and complete forms on behalf of illiterate persons.

Tasks include:

a) reading letters and other written matter to illiterate persons and providing the necessary interpretation and information;
b) writing letters and completing forms on behalf of illiterate persons;
c) offering advice to individuals and interpreting and helping with the completion of government and other official forms;
d) performing related tasks; and
e) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4414)

4414-01	Petition Writer
4414-02	Public Writer
4414-03	Scribes

UNIT GROUP 4415 FILING AND COPYING CLERKS

Filing and Copying Clerks file correspondence, cards, invoices, receipts and other records in alphabetical or numerical order or according to the filing system used. They locate and remove material from file when requested and photocopy, scan or fax documents.

Tasks include:

a) sorting or classifying materials according to guidelines such as content, purpose, user criteria, or chronological, alphabetical or numerical order;
b) filing material in drawers, cabinets and storage boxes;
c) locating and removing materials from files when requested;
d) keeping records of materials filed and removed;
e) photocopying, scanning or faxing documents and other records;
f) performing related tasks; and
g) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: (refer to index; unit group 4415)

4415-01	Clerk, Filing
4415-02	Clerk, Compilation Directory
4415-03	Clerk, Photocopying
4415-04	Clerk, Document Copying

UNIT GROUP 4416 PERSONNEL CLERKS

Personnel Clerks maintain and update personnel records such as information on transfers and promotions, performance evaluations, employee leave taken and accumulated, salaries, qualifications and training.

Tasks include:

a) updating information on employment history, salaries, performance evaluations, training and leave taken and accumulated;
b) initiating records for newly appointed workers and checking records to ensure they are complete;
c) processing applications for employment and promotions and advising applicants of their application results;
d) receiving and answering queries about qualifications and employment conditions;
e) handling the advertisement for job applications and announcements of job openings and job examinations;

f) maintaining and updating the manual and computerised filing and registration systems, and compiling and preparing reports and documents relating to personnel activities;
g) storing and retrieving personnel records and files on request;
h) performing related tasks; and
i) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: **(refer to index; unit group 4416)**

4416-01	Clerk, Employment
4416-02	Clerk, General Affairs
4416-03	Clerk, Personnel
4416-04	Clerk, Human Resource

UNIT GROUP 4419 CLERICAL SUPPORT WORKERS NOT ELSEWHERE CLASSIFIED

This unit group covers Clerical Support Workers Not Elsewhere Classified in Minor Group 441: Other Clerical Support Workers. As an example, this group include Assistant Wardrobe, Safety Clerk and Administrative (Legal) Grade L19.

Tasks include:
a) assisting in the preparation of periodicals, advertisements, catalogues and other materials for publication;
b) assisting in economic management and marketing on the basis of the units that have been placed and the tasks from superiors;
c) assisting in the teaching of theory and practical in one of the fields such as food preparation / food technology / waiters, captains and supervisors of food / clothes making and garment cutting / sewing / furniture carving;
d) performing related tasks; and
e) supervising, scheduling and monitoring the tasks of other workers.

Example of the occupations classified here: **(refer to index; unit group 4419)**

4419-01	Assistant Wardrobe
4419-02	Safety Clerk
4419-03	Administrative Assistant (Legal) Grade L19
4419-04	Syariah Assistant Grade LS19

MAJOR GROUP 5

SERVICE AND SALES WORKERS

SERVICE AND SALES WORKERS

5

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

51 PERSONAL SERVICES WORKERS

511 TRAVEL ATTENDANTS, CONDUCTORS AND GUIDES

5111 TRAVEL ATTENDANTS AND TRAVEL STEWARDS
5112 TRANSPORT CONDUCTORS
5113 TRAVEL GUIDES

512 COOKS

5121 COOKS

513 WAITERS AND BARTENDERS

5131 WAITERS
5132 BARTENDERS

514 HAIRDRESSERS, BEAUTICIANS AND RELATED WORKERS

5141 HAIRDRESSERS
5142 BEAUTICIANS AND RELATED WORKERS

515 BUILDING AND HOUSEKEEPING SUPERVISORS

5151 CLEANING AND HOUSEKEEPING SUPERVISORS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS
5152 DOMESTIC HOUSEKEEPERS
5153 BUILDING CARETAKERS

516 OTHER PERSONAL SERVICES WORKERS

5161 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS
5162 COMPANIONS AND VALETS
5163 UNDERTAKERS AND EMBALMERS
5164 PET GROOMERS AND ANIMAL CARE WORKERS
5165 DRIVING INSTRUCTORS
5169 PERSONAL SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

52 SALES WORKERS

521 STREET AND MARKET SALESPERSONS

5211 STALL AND MARKET SALESPERSONS
5212 STREET FOOD SALESPERSONS

522 SHOP SALESPERSONS

5221 SHOPKEEPERS
5222 SHOP SUPERVISORS
5223 SHOP SALES ASSISTANTS

523 CASHIERS AND TICKET CLERKS

5231 CASHIERS AND TICKET CLERKS

524 OTHER SALES WORKERS

5241 FASHION AND OTHER MODELS
5242 SALES DEMONSTRATORS
5243 DOOR-TO-DOOR SALESPERSONS
5244 CONTACT CENTRE SALESPERSONS
5245 SERVICE STATION AND PUMP ATTENDANTS
5246 FOOD COUNTER ATTENDANTS
5249 SALES WORKERS NOT ELSEWHERE CLASSIFIED

53 EDUCATION AND SOCIAL SERVICES WORKERS

531 CHILD CARE WORKERS AND TEACHERS AIDES

5311 CHILD CARE WORKERS
5312 TEACHERS AIDES

532 PERSONAL CARE WORKERS IN HEALTH SERVICES

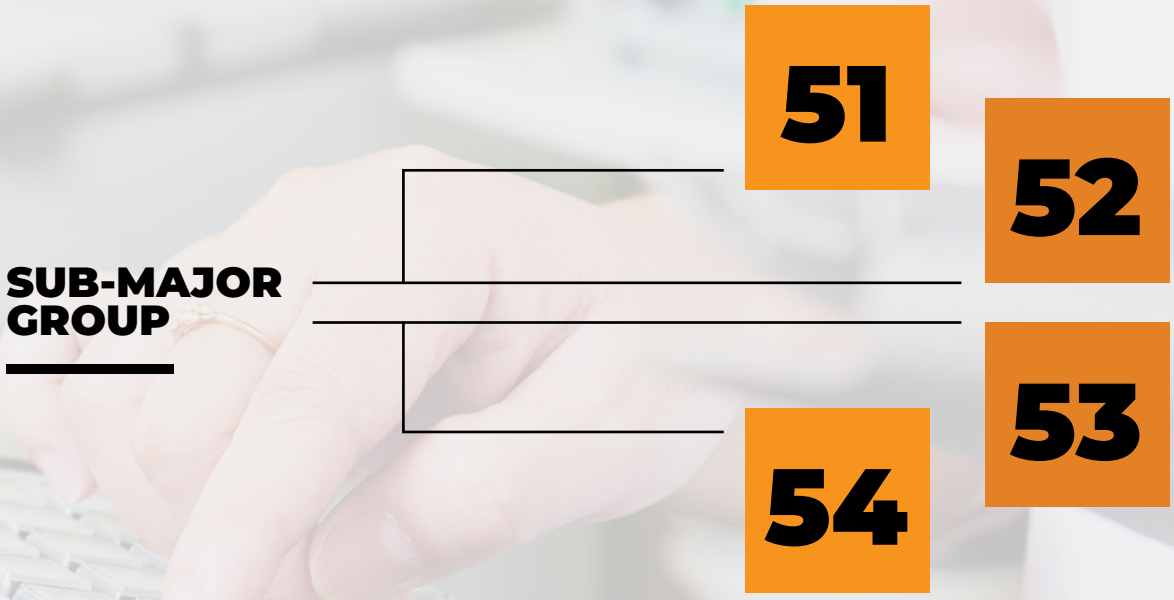
5321 HEALTH CARE ASSISTANTS
5322 HOME-BASED PERSONAL CARE WORKERS
5329 PERSONAL CARE WORKERS IN HEALTH SERVICES NOT ELSEWHERE CLASSIFIED

54 PROTECTIVE SERVICES WORKERS

541 PROTECTIVE SERVICES WORKERS

5411 FIRE FIGHTERS
5412 LOW RANK POLICE OFFICERS
5413 PRISON GUARDS
5414 SECURITY GUARDS
5415 IMMIGRATION/ CUSTOMS OFFICERS AND ASSISTANTS
5419 PROTECTIVE SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

SERVICE AND SALES WORKERS



51 PERSONAL SERVICES WORKERS
52 SALES WORKERS
53 EDUCATION AND SOCIAL SERVICES WORKERS
54 PROTECTIVE SERVICES WORKERS

SERVICE AND SALES WORKERS

Description

Provide personal services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments as well as at stalls and markets

Skills level

Most occupations in this major group require skills at the second level

Occupations in this major group are classified into the following sub-major groups:

51 PERSONAL SERVICES WORKERS
52 SALES WORKERS
53 EDUCATION AND SOCIAL SERVICES WORKERS
54 PROTECTIVE SERVICES WORKERS

SUB-MAJOR 51 PERSONAL SERVICES WORKERS

Personal Services Workers provide personal services related to travel, housekeeping, catering, personal and child care, and other personal services.

Occupations in this sub-major group are classified into the following minor groups:

511 TRAVEL ATTENDANTS, CONDUCTORS AND GUIDES
512 COOKS
513 WAITERS AND BARTENDERS
514 HAIRDRESSERS, BEAUTICIANS AND RELATED WORKERS
515 BUILDING AND HOUSEKEEPING SUPERVISORS
516 OTHER PERSONAL SERVICES WORKERS

MINOR GROUP 511 TRAVEL ATTENDANTS, CONDUCTORS AND GUIDES

Travel Attendants, Conductors and Guides provide various personal services in connection with travelling by aircraft, train, ship, bus or other vehicles, and escort individuals and groups on travel tours, sightseeing visits and excursions.

Occupations in this minor group are classified into the following unit groups:

5111 TRAVEL ATTENDANTS AND TRAVEL STEWARDS
5112 TRANSPORT CONDUCTORS
5113 TRAVEL GUIDES

UNIT GROUP 5111 TRAVEL ATTENDANTS AND TRAVEL STEWARDS

Travel Attendants and Travel Stewards render personal services to ensure the comfort and safety of passengers. These include serving meals and beverages and coordinating housekeeping and social activities.

Tasks include:

a) greeting passengers entering aircraft, conducting them to their seats;
b) conducting safety checks and demonstrating the use of safety equipment such as life belts and oxygen masks and assisting passengers in emergencies;
c) distributing reading materials, headphones, blankets and similar items and answering passengers' queries;
d) serving pre-prepared meals and refreshments;
e) selling duty-free goods to passengers;
f) administering minor medical aide to passengers in need;
g) taking care of general needs and comfort of ship and train passengers;
h) ensuring that safety regulations are complied with;
i) performing related tasks; and
j) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5111)

5111-01	Ship's Cabin Attendant
5111-02	Steward/Stewardess, Coordinator
5111-03	Steward/Stewardess, Supervisor
5111-04	Steward/Stewardess, Floor

UNIT GROUP 5112 TRANSPORT CONDUCTORS

Transport Conductors collect or issue tickets and are responsible for safety and comfort on trains, trams, buses and other public transport vehicles.

Tasks include:

a) collecting or issuing tickets, passes or fares, or checking the validity of ticket previously issued;
b) taking charge of sleeping-cars of a passenger train, including checking passengers' tickets, ensuring their safety and entertaining requests for information;
c) ensuring that safety regulations are respected;
d) giving information to passengers especially about stops and connections;
e) cooperating with the driver in conformity with time schedules;
f) taking appropriate action in emergencies;
g) helping the station supervisor or operation executive to manage, supervise and overcome problem of traffic operation, staff, trade and others in order to provide efficient and economic service to train passengers;
h) performing related tasks; and
i) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5112)

5112-01	Bus Conductor
5112-02	Ticket Inspector
5112-03	Ferry/ Boat Conductor
5112-04	Train Conductor

UNIT GROUP 5113 TRAVEL GUIDES

Travel Guides accompany individuals or groups on sightseeing tours or excursions, describe points of interest and provide other guide services.

Tasks include:

a) escorting tourists and looking after their comfort;
b) ensuring that reservations for transport and accommodation are confirmed and prepared itineraries are met;
c) accompanying tourists on sightseeing tours and describing points of interest;
d) accompanying tourists to museums and exhibitions and giving information on exhibits;
e) conducting outdoor activities such as mountain climbing, hunting or fishing;
f) performing related tasks; and
g) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5113)

5113-01	Tourist Guide
5113-02	Travel Guide
5113-03	Art Gallery Guide
5113-04	Museum Guide

MINOR GROUP 512 COOKS

Cooks plan, organise, prepare and cook food in hotels, restaurants and other public eating places, on board ships, passenger trains, private households and other institutions or establishments.

Occupations in this minor group are classified into the following unit groups:

5121 COOKS

UNIT GROUP 5121 COOKS

Cooks plan, organise, prepare and cook food in hotels, restaurants and other public eating places, on board ships, passenger trains, private households and other institutions or establishments.

Tasks include:

a) planning meals and menus, ordering food supplies and preparing and cooking food;
b) monitoring food quality;
c) demonstrating techniques and advising on cooking procedures;
d) planning, supervising and coordinating work in the kitchen;
e) ensuring cleanliness of crockery, utensils, kitchen equipment and work areas;
f) organising food promotions;
g) determining dry and wet ingredients for cooking, receiving and checking ingredients, preparing ingredients, preserving the cleanliness of equipment and kitchen area, and ensuring that kitchenware is stored and locked;
h) ensuring safe and sanitary food handling practices are complied with;
i) performing related tasks; and
j) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5121)

5121-01	Cook
5121-02	Cook, Hotels and Catering Services
5121-03	Cook, Private Service
5121-04	Cook, Food Canning and Preserving

MINOR GROUP 513 WAITERS AND BARTENDERS

Waiters and Bartenders serve food and beverages in commercial dining and drinking places such as clubs, institutions and canteens, on board ships and in passenger trains.

Occupations in this minor group are classified into the following unit groups:

5131 WAITERS
5132 BARTENDERS

UNIT GROUP 5131 WAITERS

Waiters and waitresses serve food and beverages in commercial dining and drinking places such as clubs, institutions and canteens, on board ships and in passenger trains.

Tasks include:

a) setting tables with clean linen, cutlery, crockery and glassware;
b) setting and arranging tables and escorting guests to their tables;
c) presenting the menu and recommending menu items to customers;
d) taking orders and serving food and beverages;
e) serving food and beverages to customers;
f) presenting bills to customers and accepting payment;
g) cleaning the dining area; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5131)

5131-01	Waiter
5131-02	Pramusaji
5131-03	Waiter, Banquet
5131-04	Food and Beverage Supervisor

UNIT GROUP 5132 BARTENDERS

Bartenders mix and serve alcoholic and non-alcoholic drinks directly to customers at a bar or counter, or through waiters.

Tasks include:
a) setting and arranging tables and escorting guests to their tables;
b) presenting the menu and recommending menu items to customers;
c) taking orders and serving food and beverages;
d) advising customer on the choice of wines and serving them;
e) serving alcoholic and non-alcoholic drinks at a bar;
f) presenting bills to customers and accepting payment;
g) cleaning glasses, utensils and bar equipment;
h) planning, organising and controlling the operation of bar;
i) examining the identity cards of customers for their age to ensure they are legally permitted to buy alcoholic drinks; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5132)

5132-01	Bartender
5132-02	Assistant Bartender
5132-03	Food and Beverage Barmen

MINOR GROUP 514 HAIRDRESSERS, BEAUTICIANS AND RELATED WORKERS

Hairdressers, Beauticians and Related Workers cut and style hair, shave and trim beards, give beauty treatment, apply cosmetics and give other kinds of treatment to customers in order to improve their appearance.

Occupations in this minor group are classified into the following unit groups:

5141 HAIRDRESSERS
5142 BEAUTICIANS AND RELATED WORKERS

UNIT GROUP 5141 HAIRDRESSERS

Hairdressers shampoo, cut, colour and style hair and massage and treat the scalp.

Tasks include:
a) cutting, washing, colouring and perming hair, shaving or trimming beards and removing facial hair;
b) giving scalp treatment;
c) fitting wigs according to customers' requirements;
d) providing advice on hair care, beauty products and hairstyles;
e) styling hair into dreadlocks and braids and adding hair extensions;
f) cleaning work areas and sanitising instruments;
g) performing related tasks; and
h) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5141)

5141-01	Coiffeur
5141-02	Hairdresser
5141-03	Barber
5141-04	Hair Stylist

UNIT GROUP 5142 BEAUTICIANS AND RELATED WORKERS

Beauticians and Related Workers give facial and body beauty treatments, apply cosmetics and give other kinds of treatment to individuals to improve their appearance.

Tasks include:
a) making up artists for a show;
b) cleaning and applying cream, lotion and related products to the face and parts of the body;
c) giving facial and body massage;
d) applying make-up on clients or actors and other performers;
e) shaping, colouring and giving other treatments to eyebrows and eyelashes;

f) dyeing hair and giving scalp treatment;
g) cleaning, shaping and polishing finger and toe nails and treating minor ailments of the human foot such as corns, calluses or toe nail problems;
h) preparing special cosmetics for individual clients;
i) attending to clients taking baths and administering elementary massage;
j) using waxing, sugaring and depilation techniques to remove unwanted body hair;
k) advising clients on diet and exercise to assist in weight loss and slimming;
l) preparing necessary materials such as latex or plastic masks, wigs and beards;
m) performing related tasks; and
n) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5142)

5142-01	Beautician Grade B19
5142-02	Beautician
5142-03	Make-Up Artist
5142-04	Manicurist

MINOR GROUP 515 BUILDING AND HOUSEKEEPING SUPERVISORS

Building and Housekeeping Supervisors coordinate, schedule and supervise the work of cleaners and other housekeeping staff in commercial, industrial and residential premises. They take responsibility for housekeeping and caretaking functions in hotels, offices, apartments, houses and private dwellings.

Occupations in this minor group are classified into the following unit groups:

5151 CLEANING AND HOUSEKEEPING SUPERVISORS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS
5152 DOMESTIC HOUSEKEEPERS
5153 BUILDING CARETAKERS

UNIT GROUP 5151 CLEANING AND HOUSEKEEPING SUPERVISORS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS

Cleaning and Housekeeping Supervisors in Offices, Hotels and Other Establishments organise, supervise and carry out housekeeping functions in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as of aircraft, trains, buses and similar vehicles.

Tasks include:
a) training, discharging, organising and supervising helpers, cleaners and other housekeeping staff;
b) purchasing or controlling the purchase of supplies;
c) controlling storage and issue of supplies;
d) supervising the general welfare and conduct of individuals in institutions;
e) sweeping or vacuuming, washing and polishing floors, furniture and other fixtures;
f) making beds, cleaning bathrooms, supplying towels, soap and related items;
g) cleaning kitchens and generally helping with kitchen work, including dishwashing;
h) restocking minibars and replenishing items such as drinking glasses and stationery;
i) performing related tasks; and
j) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5151)

5151-01	Banquet Hotel and Lodging Supervisor
5151-02	Floor Hotel and Lodging Supervisor
5151-03	Housekeeping Supervisor
5151-04	Laundry Supervisor

UNIT GROUP 5152 DOMESTIC HOUSEKEEPERS

Domestic Housekeepers organise, supervise and carry out housekeeping functions in private households with or without the support of subordinate staff.

Tasks include:
a) supervising workers employed in households as domestic staff;
b) purchasing or controlling the purchase of supplies;
c) controlling storage and issue of supplies;
d) assisting in cases of minor injury or illness by performing tasks such as taking temperature, giving medicine or putting on bandages;
e) sweeping, vacuuming, washing and polishing floors, furniture and other fixtures;
f) making beds, cleaning bathrooms, supplying towels, soap and related items;
g) taking care of household pets and plants, receiving visitors, answering telephones, delivering messages and shopping for groceries;
h) preparing and cooking meals, setting and clearing tables and serving food and beverages;
i) cleaning kitchens and generally helping with kitchen work, including dishwashing;
j) performing related tasks; and
k) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5152)

5152-01	Housekeeper, Private
5152-02	Butler
5152-03	House Steward, Private
5152-04	Housekeeping Worker, Private

UNIT GROUP 5153 BUILDING CARETAKERS

Building Caretakers take care of apartments, houses, hotels, hostels, offices and other buildings and maintain them in a clean and proper condition. They may supervise other workers and contractors depending on the size and nature of the building concerned.

Tasks include:
a) supervising the work of cleaning, housekeeping and building maintenance staff and contractors;
b) participating in cleaning, simple repairs and maintenance of building interiors;
c) regulating conduct of tenants and visitors in such matters as noise abatement or misuse of property;
d) providing small services to absent tenants such as accepting deliveries on their behalf or providing requested information to callers;
e) notifying the management and owners of buildings of the need for repairs;
f) patrolling buildings to ensure security is maintained;
g) filling in registration forms and providing tenants with copies of rules;
h) performing related tasks; and
i) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5153)

5153-01	Hostel Supervisor Grade N19
5153-02	Building Caretaker
5153-03	Warden, Hostel
5153-04	Warden, Dormitory

MINOR GROUP 516 OTHER PERSONAL SERVICES WORKERS

Other Personal Services Workers predict future events in people's lives, provide companionship and other personal services; groom, train and care for animals; provide embalming and funeral services; and instruct learner drivers.

Occupations in this minor group are classified into the following unit groups:

5161 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS
5162 COMPANIONS AND VALETS
5163 UNDERTAKERS AND EMBALMERS
5164 PET GROOMERS AND ANIMAL CARE WORKERS
5165 DRIVING INSTRUCTORS
5169 PERSONAL SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 5161 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS

Astrologers, Fortune-Tellers and Related Workers predict future events in people's lives by practising astrology or related techniques and give warnings and advice on possible courses of action.

Tasks include:

a) reading horoscopes of individuals at birth or forecasting future events and conditions of their lives;
b) determining auspicious times for various human activities such as inaugurations, marriages, journeys and other religious ceremonies;
c) studying the influence of the constellations and of other phenomena on a person's life and situation;
d) interpreting a person's characteristics through reading of the palms, playing cards, etc.;
e) advising individuals on precautions to be taken to avoid evil influences; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5161)

5161-01	Astrologer
5161-02	Palmist
5161-03	Fortune-Teller
5161-04	Numerologist

UNIT GROUP 5162 COMPANIONS AND VALETS

Companions and Valets provide companionship and attend to various personal needs of the employer.

Tasks include:

a) providing companionship to employer by accompanying him/her to various places, reading, conversing and participating in activities such as sports;
b) assisting in entertaining visitors in employer's home;
c) keeping wardrobe and personal effects of the employer in a proper condition; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5162)

5162-01	Lady-in-Waiting
5162-02	Companion
5162-03	Companion, Social
5162-04	Valet

UNIT GROUP 5163 UNDERTAKERS AND EMBALMERS

Undertakers and Embalmers perform various tasks in the funeral of human remains.

Tasks include;

a) making arrangements for and conducting funerals and cremations;
b) embalming human remains to retard or repress the process of decay;
c) puncturing internal organs through the abdomen to remove natural fluids and gases;
d) restoring injured portions of the body to their normal appearance by affixing pieces of moulded wax, plaster of Paris or other materials;
e) making arrangements for and conducting funerals;
f) interviewing family to obtain data about the deceased and other information and completing documents;
g) bathing human remains and wrapping them in shroud;
h) weeping during the recounting of the goodness, honesty of the deceased and exhibiting the sadness and grief of the deceased's family in losing a loved one; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5163)

5163-01	Attendant, Mortuary
5163-02	Undertaker
5163-03	Embalmer
5163-04	Moirologist

UNIT GROUP 5164 PET GROOMERS AND ANIMAL CARE WORKERS

Pet Groomers and Animal Care Workers feed, care for, groom, bathe and exercise animals, and clean, disinfect and repair their cages and also specialise in grooming or maintaining a pet's appearance.

Tasks include:

a) caring for animals in zoos, bird and aquatic parks;
b) understanding and applying techniques required to feed, handle, train and groom animals;
c) cleaning and disinfecting cages and surrounding areas, and shampooing, clipping nails and grooming animals;
d) monitoring and documenting animal behaviour, preparing food and feeding animals, fish and birds at scheduled intervals;
e) assisting scientists and researchers in conducting laboratory tests on animals;
f) playing with the animals, providing companionship and observing behavioural changes that could indicate illness or injury;
g) cleaning and sanitising equipment to prevent the spread of disease, storing grooming equipment, keeping appointment schedules and discussing grooming needs of animals with customers;
h) training and performing with animals; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5164)

5164-01	Animal Caretaker
5164-02	Keeper in Zoo, Bird and Aquatic Parks
5164-03	Zookeeper
5164-04	Veterinary Worker

UNIT GROUP 5165 DRIVING INSTRUCTORS

Driving Instructors teach students to drive and demonstrate proper driving techniques.

Tasks include:

a) teaching students the rules of driving;
b) teaching students road safety;
c) teaching students to operate the car;
d) keeping students safe by operating dual controls (e.g. brakes and mirrors);
e) monitoring students' driving techniques;
f) teaching car maintenance; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5165)

5165-01	Driving Instructor

UNIT GROUP 5169 PERSONAL SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Personal Services Workers Not Elsewhere Classified in Minor Group 516: Other Personal Services Workers. For an example, this group include Club Host, Guest Relations Officer and Event crew.

Tasks include:

a) accompanying clients to restaurants and other places;
b) acting as a dance partner;
c) welcoming clients to a night club and ensuring that they are thoroughly entertained; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5169)

5169-01	Club Host
5169-02	Guest Relations Officer
5169-03	Event Crew

SUB-MAJOR 52 SALES WORKERS

Sales Workers sell and demonstrate goods in wholesale or retail shops, at stalls and markets, door-to-door, via telephone or customer contact centres. They may record and accept payment for goods and services purchased, and may operate small retail outlets.

Occupations in this sub-major group are classified into the following minor groups:

521 STREET AND MARKET SALESPERSONS
522 SHOP SALESPERSONS
523 CASHIERS AND TICKET CLERKS
524 OTHER SALES WORKERS

MINOR GROUP 521 STREET AND MARKET SALESPERSONS

Street and Market Salespersons sell goods from stalls at markets or streets and prepare and sell hot or cold food and drinks in streets and public places.

Occupations in this minor group are classified into the following unit groups:

5211 STALL AND MARKET SALESPERSONS
5212 STREET FOOD SALESPERSONS

UNIT GROUP 5211 STALL AND MARKET SALESPERSONS

Stall and Market Salespersons sell various goods from stalls in open-air or covered markets or from stalls in streets or other open spaces.

Tasks include:
a) obtaining from the local authorities permission to set up a stall at a particular place on a street or other open spaces;
b) determining the variety of products, stock and price of goods to be sold;
c) buying or contracting goods from wholesale suppliers or directly from producers;
d) displaying products and explaining the qualities of the products to customers;
e) stacking and displaying goods for sale, and wrapping and packing goods sold;
f) receiving payment and keeping accounts; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5211)

5211-01	Street Stall Salesperson
5211-02	Market Salesperson
5211-03	Kiosk Salesperson
5211-04	Counter Sales Promoter

UNIT GROUP 5212 STREET FOOD SALESPERSONS

Street Food Salespersons prepare and sell hot or cold food and drinks ready for immediate consumption on the streets and public places such as stations, cinemas or theatres.

Tasks include:
a) obtaining permission from the local authority to set up a stall at a particular place on the street or other open spaces;
b) obtaining food and drinks for sale;
c) loading and unloading, pushing, pedalling or pulling a hand-cart, truck, tray or basket to bring food and drinks to the desired place on the streets, or public places such as stations or cinemas;
d) displaying and selling food and drinks, and accepting payment;
e) loading and unloading goods for sale; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5212)

5212-01	Hawker (Food)
5212-02	Street Food Vendor

MINOR GROUP 522 SHOP SALESPERSONS

Shop Salespersons sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments. They explain the functions and qualities of these goods or services, and may operate small shops.

Occupations in this minor group are classified into the following unit groups:

5221 SHOPKEEPERS
5222 SHOP SUPERVISORS
5223 SHOP SALES ASSISTANTS

UNIT GROUP 5221 SHOPKEEPERS

Shopkeepers operate small retail shops either independently or with support from a small number of others.

Tasks include:
a) loading and unloading goods for sale;
b) receiving payment and keeping accounts;
c) stacking and displaying items for sale;
d) advising customers on the selection, price, delivery, use and care of goods and services;
e) preparing bills, invoices or receipts;
f) checking stock and participating in stock takes;
g) performing related tasks; and
h) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5221)

5221-01	Shopkeeper
5221-02	Grocer
5221-03	Newsagent

UNIT GROUP 5222 SHOP SUPERVISORS

Shop Supervisors supervise and coordinate the activities of shop sales assistants and other workers in retail and wholesale shops such as supermarkets and department stores.

Tasks include:
a) estimating the types and quantities of goods required by customers and ensuring adequate stock;
b) teaching staff the sales procedures, including how to deal with difficult and complex cases;
c) supervising sales staff;
d) estimating needs of the business, purchase or authorise the purchase of goods of the types, qualities and quantities required, usually under the general direction of the proprietor or manager;
e) examining returned goods and deciding on appropriate action;
f) supervising and instructing sales and other staff or the sales department in their day-to-day work;
g) ensuring the prices of goods and services are displayed;
h) checking stock and participating in stock takes;
i) performing related tasks; and
j) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5222)

5222-01	Shop Supervisor
5222-02	Sales Supervisor
5222-03	Supermarket Supervisor
5222-04	Checkout Supervisor

UNIT GROUP 5223 SHOP SALES ASSISTANTS

Shop Sales Assistants sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments. They explain the functions and qualities of these goods or services.

Tasks include:

a) moving goods to be sold from storage area to sales area and placing them on display;
b) explaining the functions and qualities of a product;
c) ascertaining the nature and quality of a product desired by a customer;
d) assisting customers in making a choice;
e) quoting prices, credit terms and discounts;
f) packing and arranging delivery of goods, if necessary;
g) preparing bills, invoices or receipts;
h) verifying cashier's receipt, if necessary;
i) giving demonstrations of articles on sale in order to inform customers about their characteristics and mode of use, as well as to stimulate buying interest; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5223)

5223-01	Sales Assistant
5223-02	Shop Assistant
5223-03	Clerk, Sales
5223-04	Clerk, Marketing

MINOR GROUP 523 CASHIERS AND TICKET CLERKS

Cashiers and Ticket Clerks deal directly with clients in connection with receiving, changing and paying out money in shops, theatres or cinemas, banks, post offices and other establishments such as shops and ticket offices or similar establishments.

Occupations in this minor group are classified into the following unit groups:

5231 CASHIERS AND TICKET CLERKS

UNIT GROUP 5231 CASHIERS AND TICKET CLERKS

Cashiers and Ticket Clerks receive directly from clients payment for goods or services in establishments such as shops and ticket offices or similar establishments.

Tasks include:

a) establishing or determining the price of goods, services or admission and tabulating the bill using a calculator, cash register or optical price scanner;
b) receiving and verifying cash, cheque or credit card payment in shops, ticket counters or similar establishments;
c) giving change and issuing receipts;
d) issuing tickets at the ticket counter and receiving corresponding payment;
e) paying out cash against written orders, credit notes, or resulting from currency exchanges and obtaining receipts;
f) keeping records and reconciling them with cash balance;
g) receiving incoming cash and checking it against sales slips and other documents;
h) operating the cash register;
i) wrapping or placing merchandise in bags; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5231)

5231-01	Cashier
5231-02	Assistant Cashier
5231-03	Cashier, Parking
5231-04	Cashier, Store

MINOR GROUP 524 OTHER SALES WORKERS

Other Sales Workers display, demonstrate and sell goods, food and services, usually to the general public, in contexts other than sales in markets, streets and shops.

Occupations in this minor group are classified into the following unit groups:

5241 FASHION AND OTHER MODELS
5242 SALES DEMONSTRATORS
5243 DOOR-TO-DOOR SALESPERSONS
5244 CONTACT CENTRE SALESPERSONS
5245 SERVICE STATION AND PUMP ATTENDANTS
5246 FOOD COUNTER ATTENDANTS
5249 SALES WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 5241 FASHION AND OTHER MODELS

Fashion and Other Models wear and display clothing and accessories, and pose for photographs, film and video, advertising, still photography or for artistic creation.

Tasks include:
a) dressing in sample apparel of new or current styles or of type wanted by the customer;
b) modelling and demonstrating style and other characteristics to best advantage;
c) walking, turning and posing to demonstrate style and characteristics of garments, fashion accessories and other merchandise;
d) posing as model for artistic photography, sculpture or painting;
e) posing as model for film and video recording in the field of advertising;
f) performing related tasks; and
g) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5241)

5241-01	Fashion Model
5241-02	Advertising Model
5241-03	Artist Model

UNIT GROUP 5242 SALES DEMONSTRATORS

Sales Demonstrators demonstrate goods at commercial premises, exhibitions and private homes.

Tasks include:
a) stacking and displaying items for sales;
b) advising customers on the selection, price, delivery, use and care of goods and services;
c) giving demonstrations of articles on sale in order to inform customers about their characteristics and mode of use, as well as to stimulate buying interest;
d) taking orders and making arrangements for payment, delivery and collection of goods;
e) offering samples of goods and distributing catalogues and advertising material;
f) contacting dealers or individuals by telephone to solicit business;
g) performing related tasks; and
h) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5242)

5242-01	Demonstrator
5242-02	Sales Promoter
5242-03	Sales Merchandiser

UNIT GROUP 5243 DOOR-TO-DOOR SALESPERSONS

Door-to-Door Salespersons sell goods and services and solicit business for establishments by approaching or visiting potential customers, usually residents in private homes, by going from door to door.

Tasks include:

a) contacting customers by telephone, mail or in person to offer or persuade them to purchase merchandise or services;
b) stacking and displaying merchandise samples at events or on racks;
c) delivering merchandise, serving customers, collecting payment and giving change;
d) approaching potential customers or going on foot or by vehicle to deliver or sell merchandise or services;
e) distributing product samples or brochures detailing the product or services;
f) taking orders for goods and entering orders into the computer system;
g) explaining prices of products or services and demonstrating use of the products; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5243)

5243-01	Direct Selling Salesperson
5243-02	Door to Door Salesperson

UNIT GROUP 5244 CONTACT CENTRE SALESPERSONS

Contact Centre Salespersons respond to telephone calls or other communication media to assist customers with specific queries, and promote goods and services, obtain sales and arrange sales visits.

Tasks include:

a) answering incoming calls to assist customers who have specific queries;
b) promoting customers' interest in the services and products offered by the company;
c) arranging for the dispatch of products, information packages, brochures, etc. to clients and other interested parties;
d) soliciting feedback to improve service, responding to requests for service/ assistance; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5244)

5244-01	Customer Contact Centre Salesperson
5244-02	Contact Centre Personnel
5244-03	Outbound Contact Centre Consultant
5244-04	Telesales Executive

UNIT GROUP 5245 SERVICE STATION AND PUMP ATTENDANTS

Service Station and Pump Attendants sell fuel, lubricants and other automotive products and provide services such as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles.

Tasks include:

a) filling the petrol tank;
b) checking and replenishing air pressure in vehicle tyres, oil and other vehicle fluids;
c) washing the windscreen and windows of vehicles;
d) performing minor repairs to vehicles such as replacing tyres, light bulbs and windscreen wiper blades;
e) maintaining and operating an automatic car wash;
f) collecting payment from customers;
g) cleaning petrol pumps, shops and surrounding driveways;
h) controlling stock and preparing daily reports on fuel, oil, accessories and other items sold;
i) performing related tasks; and
j) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5245)

5245-01	Petrol Pump Attendant
5245-02	Service Station Attendant

UNIT GROUP 5246 FOOD COUNTER ATTENDANTS

Food Counter Attendants serve customers at food counters and prepare simple food items in restaurants, cafeterias, hotels, fast food outlets, hospitals and other similar establishments.

Tasks include:
a) serving food to customers at counters;
b) ascertaining the products desired by customers, assisting customers in making choices and taking orders;
c) preparing simple food items and reheating prepared food;
d) packing takeaway food; and
e) receiving payment for food items purchased.

Examples of the occupations classified here: (refer to index; unit group 5246)

5246-01 Food Counter Atendant
5246-02 Cafeteria Counter Attendant

UNIT GROUP 5249 SALES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Sales Workers Not Elsewhere Classified in Minor Group 524: Other Sales Workers. As an example this group include Rental Salesperson

Tasks include:
a) stacking and displaying items for sale;
b) advising customers on the selection, price, delivery, use and care of goods and services;
c) preparing bills, invoices or receipts;
d) giving demonstrations of articles on sale in order to inform customers about their characteristics and mode of use, as well as to stimulate buying interest;
e) contacting dealers or private individuals by telephone to solicit sales for good or services;
f) checking stock and participating in stock takes;
g) performing related tasks; and
h) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5249)

5249-01 Rental Salesperson

SUB-MAJOR 53 EDUCATION AND SOCIAL SERVICES WORKERS

Education and Social Services Workers provide care, supervision and assistance for children, patients and the elderly, convalescent or disabled persons in institutional and residential settings.

Occupations in this sub-major group are classified into the following minor groups:

531 CHILD CARE WORKERS AND TEACHERS' AIDES
532 PERSONAL CARE WORKERS IN HEALTH SERVICES

MINOR GROUP 531 CHILD CARE WORKERS AND TEACHERS' AIDES

Child Care Workers and Teachers' Aides provide care and supervision for children in schools, residential homes and child care facilities.

Occupations in this minor group are classified into the following unit groups:

5311 CHILD CARE WORKERS
5312 TEACHERS AIDES

UNIT GROUP 5311 CHILD CARE WORKERS

Child Care Workers provide care and supervision of children in residential homes and day care centres

Tasks include:

a) assisting children to bath, dress and feed themselves;
b) taking children to and from school or outdoors for recreation;
c) playing games with children, or entertaining them by reading or story-telling;
d) looking after the welfare and safety of children in the absence of their parents;
e) maintaining order in children's bedrooms and playrooms;
f) taking care of school children on excursions, museum visits and similar outings;
g) performing related tasks; and
h) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5311)

5311-01	Child Care Worker
5311-02	Baby Amah
5311-03	Nanny
5311-04	Baby-sitter

UNIT GROUP 5312 TEACHERS AIDES

Teachers Aides perform non-teaching duties to assist teachers, and provide care and supervision for children in schools and pre-schools.

Tasks include:

a) carrying out tasks to assist teachers in pre-school classes and caring for pupils;
b) demonstrating, supervising and participating in activities that enhance the physical, social, emotional and intellectual development of children in schools and pre-schools;
c) preparing indoor and outdoor areas for learning and recreational activities;
d) assisting children with intellectual, physical, behavioural and other learning difficulties with their studies;
e) assisting children individually to learn social skills;
f) assisting in the preparation of teaching materials, and copying and collating written and printed materials;
g) operating audio-visual equipment, computers and other teaching aids;
h) distributing and collecting lesson material; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5312)

5312-01	Pupils Management Assistant Grade N19
5312-02	Teacher's Aide
5312-03	Pre-school Assistant
5312-04	Kindergarten Assistant

MINOR GROUP 532 PERSONAL CARE WORKERS IN HEALTH SERVICES

Personal Care Workers in Health Services provide personal care and assistance with mobility and activities of daily living to patients and the elderly, convalescent and disabled people in health care centres and residential settings.

Occupations in this minor group are classified into the following unit groups:

5321 HEALTH CARE ASSISTANTS
5322 HOME-BASED PERSONAL CARE WORKERS
5329 PERSONAL CARE WORKERS IN HEALTH SERVICES NOT ELSEWHERE CLASSIFIED

UNIT GROUP 5321 HEALTH CARE ASSISTANTS

Health Care Assistants provide personal care and assistance with activities of daily living to patients and residents in a variety of health care settings such as hospitals, clinics and nursing care centres.

Tasks include:
a) assisting patients with personal and therapeutic care needs such as personal hygiene, feeding, dressing, physical mobility and exercise, communication, taking medications and changing dressings;
b) positioning, lifting and moving patients and placing them in wheelchairs or on movable beds;
c) maintaining the cleanliness of the patients' surroundings, such as cleaning the patients' rooms and changing the bed linen;
d) assisting with the patients' overall comfort;
e) monitoring patients' conditions by taking their temperature, pulse, respiration and weight; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5321)

5321-01	Health Medical Assistant Grade U11
5321-02	Public Health Assistant Grade U19
5321-03	Nursing Assistant
5321-04	Nursing Medical Assistant

UNIT GROUP 5322 HOME-BASED PERSONAL CARE WORKERS

Home-Based Personal Care Workers provide routine personal care and assistance with activities of daily living to persons in need of such care due to the effects of ageing, illness, injury or other physical or mental conditions in private homes and other residential settings.

Tasks include:
a) helping with daily tasks such as meal preparation, medication reminders, laundry, light housekeeping, delivery and pick up of groceries, shopping, transport arrangement and accompaniment of customers;
b) bathing, dressing, moving patients, helping them to use the toilet, eat and walk;
c) lightening housework, preparing meals, taking medications, shopping for groceries and clothes, using the telephone and managing money that enable the patient to live independently in the community;
d) assisting elderly or disabled people with daily activities at their home or in care centres;
e) advising families, the elderly and the disabled on such matters as nutrition, hygiene and home facilities;
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 5322)

5322-01	Care Aide (Home)
5322-02	Birth Assistant (Home)
5322-03	Nursing Aide (Home)
5322-04	Personal Care Provider

UNIT GROUP 5329 PERSONAL CARE WORKERS IN HEALTH SERVICES NOT ELSEWHERE CLASSIFIED

This unit group includes Personal Care Workers in Health Services Not Elsewhere Classified in Minor Group 532: Personal Care Workers in Health Services.

Tasks include:
a) performing related tasks; and
b) supervising other workers.

SUB-MAJOR 54 PROTECTIVE SERVICES WORKERS

Protective Services Workers provide protective services related to fire fighters, police officers, prison guards, security guards and protective services not elsewhere classified.

Occupations in this sub-major group are classified into the following minor groups :

541 PROTECTIVE SERVICES WORKERS

MINOR GROUP 541 PROTECTIVE SERVICES WORKERS

Protective Services Workers protect individuals and property against fire and other hazards, maintain law and order and enforce laws and regulations.

Occupations in this minor group are classified into the following unit :

5411 FIRE FIGHTERS
5412 LOW RANK POLICE OFFICERS
5413 PRISON GUARDS
5414 SECURITY GUARDS
5415 IMMIGRATION/ CUSTOMS OFFICERS AND ASSISTANTS
5419 PROTECTIVE SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 5411 FIRE FIGHTERS

Fire Fighters prevent and extinguish fires, rescue lives, salvage property and conduct rescue efforts.

Tasks include:
a) performing fire fighting and rescue operations;
b) conducting daily maintenance of fire fighting equipment efficiently;
c) rescuing people and salvaging property and possessions during and after fires and major accidents;
d) preventing or limiting the spread of dangerous substances in the event of fires or accidents;
e) directing rescue operations to save trapped people, animals, property and rendering first aid to injured victims;
f) informing the public about fire prevention;
g) investigating causes of a fire and submitting the report to superiors;
h) performing related tasks; and
i) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5411)

5411-01	Fire Officer Grade KB19
5411-02	Firefighter
5411-03	Fire Watch
5411-04	Forest Fire Fighter

UNIT GROUP 5412 LOW RANK POLICE OFFICERS

Low Rank Police Officers maintain law and order and enforce laws and regulations.

Tasks include:
a) performing policing duties;
b) planning, preventing crime, investigating, arresting and charging, directing traffic, gathering intelligence, preparing equipment and communication and maintaining public security on land, in the sea and air;
c) arresting people who contravene the law;
d) maintaining law and order, protecting people and property from hazards and unlawful acts;
e) issuing summonses to traffic offenders, assuming authority in the event of an accident;
f) rendering first aide and conducting the necessary investigations, maintaining order during fires, inspecting authorised places of public assembly, and providing general information;
g) keeping records, preparing reports on activities and giving evidence in court;
h) performing related tasks; and
i) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5412)

5412-01	Low-Ranking Police Officer and Auxiliary Constable, Grade YT1
5412-02	Low-Ranking Police Officer and Aboriginal Constable, Grade YP1
5412-03	Police Volunteer
5412-04	Police Patrol

UNIT GROUP 5413 PRISON GUARDS

Prison Guards watch over and maintain discipline among inmates of prisons, reformatories or penitentiaries.

Tasks include:

a) guarding prisoners (detainees/juveniles) in terms of physical safety and management inclusive of rehabilitation and guard duties of prisoners undergoing treatment at hospitals or attending trial in court;
b) searching arriving prisoners, putting their valuables in safekeeping, escorting prisoners to prison cells and locking them in;
c) making periodic inspection tours of prison cells;
d) supervising prisoners at work, meals or during walks and patrolling prison areas to prevent escape by prisoners;
e) performing related tasks; and
f) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5413)

5413-01	Prison Officer Grade KA19

UNIT GROUP 5414 SECURITY GUARDS

Security Guards watch over industrial plants, warehouses, houses and other property against fire, theft or illegal entry or accompanying vehicles transporting cash or valuables to protect against theft or robbery.

Tasks include:

a) recording particulars of vehicles entering or leaving the plant or premises;
b) checking vehicles leaving the premises to prevent unauthorised removal of goods;
c) patrolling inside and around premises to prevent unauthorised entry;
d) accompanying or riding in vehicles transporting cash, payroll or valuables to protect against theft or robbery;
e) performing security checks of passengers and luggage at airports;
f) ushering people into courtrooms and similar establishments;
g) monitoring the guarding of all main gateways and entrances to buildings and directing security guards to watch visitors entering the complex;
h) patrolling inside and outside the building;
i) performing the duties of a bodyguard;
j) performing related tasks; and
k) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5414)

5414-01	Security Assistant Grade KP19
5414-02	Security Grade KP11
5414-03	Administrative Assistant (Security) Grade 21
5414-04	General Worker (Security Control) Grade 1

UNIT GROUP 5415 IMMIGRATION/ CUSTOMS OFFICERS AND ASSISTANTS

Immigration/ Customs Officers and Assistants help to examine and assess the admissibility of all passengers at seaports and airports. They are involved in preventive work, searching of vehicles, freight and examination of documentation.

Tasks include:

a) examining imported / exported goods, luggage entering/exiting the gates of the country and balancing manifests;
b) controlling the movement of goods in / out of the free zones, licensed manufacturing warehouses, effective warehouses, excise factories, performing the duties of cashier and collection of duty;
c) carrying out prevention duties such as espionage, raids, patrols and search of vessels / vehicles and assisting in common administrative tasks;
d) selecting and targeting individual vehicles based on intelligence, previous offences, previous shipping information, computer records and current trends;
e) searching individuals, vehicles and cargo for smuggled goods;
f) examining documentation relating to imported freight;
g) examining freight physically to ensure that the goods carried correspond with the documented description;
h) arresting individuals suspected of smuggling;
i) assisting in the enforcement of the law, examining wholesale and retail business premises, aiding in anti-smuggling operation duties, wholesale and retail licence application, investigating cases for which action has been taken under enforced laws, processing permit applications for rice transfer, collecting information on controlled goods, processing applications for import licence, rice by-products such as rice flour, glutinous rice flour, rice vermicelli, etc. and preparing information relating to import and export of these goods;
j) performing related tasks; and
k) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: (refer to index; unit group 5415)

5415-01	Immigration Officer Grade KP19
5415-02	Assistant Superintendent of Custom Grade WK19

UNIT GROUP 5419 PROTECTIVE SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Protective Services Workers Not Elsewhere Classified in Minor Group 541: Protective Service Workers. As an example, this group include Maritime enforcement officers of other Ranks Grade T1, Game warden, Park Warden, Animal Recreation and Wild Life Warden

Tasks include:

a) ensuring the safety and cleanliness of a swimming pool for use and that the public adhere to the instructions and prescribed regulations pertaining to the use of the swimming pool;
b) monitoring and ensuring the safety of users of water recreation devices while ensuring the equipment used is not damaged and is safe;
c) performing the duties of a bodyguard;
d) patrolling beaches and swimming pools to prevent accidents and to rescue bathers from drowning;
e) patrolling natural reserves, game parks, forest areas and enclosures to prevent theft and destruction;
f) performing various underwater tasks connected with rescue work or recovery of dead bodies;
g) taking responsibility for rehabilitation and caring of parks, supervision of the employees in fieldwork, and patrolling the boundaries of a park;
h) directing traffic and enforcing its authority in the event of an emergency;
i) performing related tasks; and
j) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 5419)

5419-01	Maritime Enforcement Officers of Other Ranks Grade T1
5419-02	Game Warden
5419-03	Park Warden, Animal Recreation
5419-04	Wild Life Warden

MAJOR GROUP 6

SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS

SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS

6

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

61 MARKET-ORIENTED SKILLED AGRICULTURAL AND LIVESTOCK WORKERS

611 MARKET GARDENERS AND CROP GROWERS

6111 FIELD CROP GROWERS
6112 SHRUB CROP GROWERS
6113 GARDENERS, HORTICULTURAL AND NURSERY GROWERS
6114 MIXED CROP GROWERS
6115 VEGETABLE GROWERS

612 ANIMAL PRODUCERS

6121 LIVESTOCK AND DAIRY PRODUCERS
6122 POULTRY PRODUCERS
6123 APIARISTS AND SERICULTURISTS
6129 ANIMAL PRODUCERS AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED

613 MIXED CROP AND ANIMAL PRODUCERS

6131 MIXED CROP AND ANIMAL PRODUCERS

62 MARKET-ORIENTED SKILLED FORESTRY, FISHERY AND HUNTING WORKERS

621 SKILLED FORESTRY AND RELATED WORKERS

6211 SKILLED FORESTRY AND RELATED WORKERS

622 SKILLED FISHERY WORKERS, HUNTERS AND TRAPPERS

6221 FISHERY AND AQUACULTURE PRODUCERS
6222 SKILLED INLAND AND COASTAL WATERS FISHERY WORKERS
6223 SKILLED DEEP-SEA FISHERY WORKERS
6224 HUNTERS AND TRAPPERS

63 SUBSISTENCE FARMERS, FISHERMEN, HUNTERS AND GATHERERS

631 SUBSISTENCE CROP FARMERS

6311 SUBSISTENCE CROP FARMERS

632 SUBSISTENCE LIVESTOCK FARMERS

6321 SUBSISTENCE LIVESTOCK FARMERS

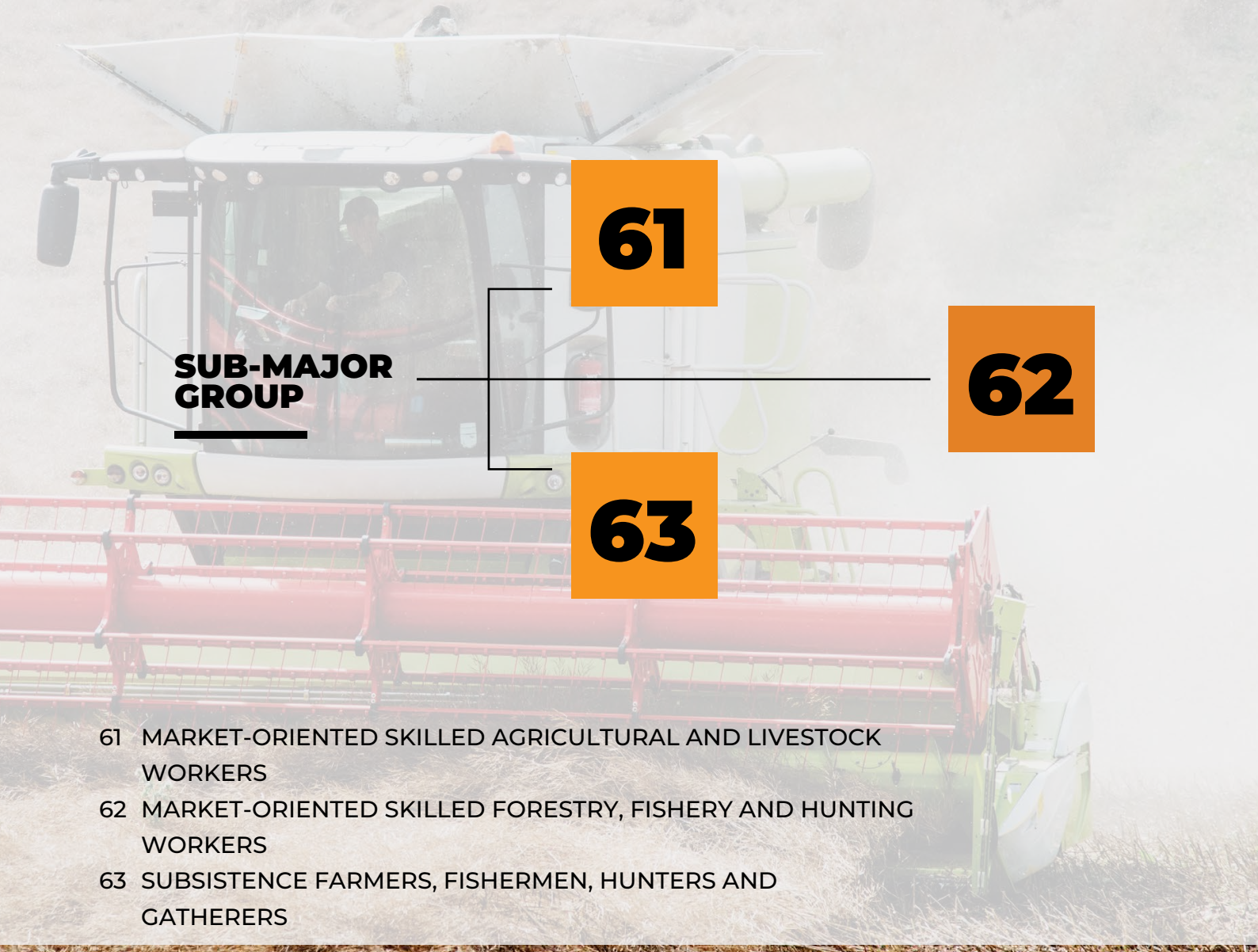
633 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS

6331 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS

634 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS

6341 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS

SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS



SUB-MAJOR GROUP

61

62

63

61 MARKET-ORIENTED SKILLED AGRICULTURAL AND LIVESTOCK WORKERS

62 MARKET-ORIENTED SKILLED FORESTRY, FISHERY AND HUNTING WORKERS

63 SUBSISTENCE FARMERS, FISHERMEN, HUNTERS AND GATHERERS

SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS

Description	**Grow and harvest field or tree and shrub crops, gather wild fruit, herbs and vegetables, breed, tend or hunt animals, produce a variety of animal husbandry products, cultivate, conserve and gather forest products, breed or catch fish and cultivate or gather other forms of aquatic life.**
Skills level	**Most occupations in this major group require skills at the second level.**

Occupations in this major group are classified into the following sub-major groups:

61 MARKET-ORIENTED SKILLED AGRICULTURAL AND LIVESTOCK WORKERS
62 MARKET-ORIENTED SKILLED FORESTRY, FISHERY AND HUNTING WORKERS
63 SUBSISTENCE FARMERS, FISHERMEN, HUNTERS AND GATHERERS

SUB-MAJOR 61 MARKET-ORIENTED SKILLED AGRICULTURAL AND LIVESTOCK WORKERS

Market-Oriented Skilled Agricultural and Livestock Workers plan and carry out the necessary operations to grow and harvest field or tree and shrub crops, breed animals, produce a variety of animal husbandry products, or cultivate, conserve and gather forest products for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

Occupations in this sub-major group are classified into the following minor groups::

611 MARKET GARDENERS AND CROP GROWERS
612 ANIMAL PRODUCERS
613 MIXED CROP AND ANIMAL PRODUCERS

MINOR GROUP 611 MARKET GARDENERS AND CROP GROWERS

Market Gardeners and Crop Growers plan and carry out the necessary operations to grow and harvest field crops, to grow fruit and other tree and shrub crops, to grow garden vegetables and medicinal and other plants and to produce horticultural and horticultural nursery products for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Occupations in this minor group are classified into the following unit groups:

6111 FIELD CROP GROWERS
6112 SHRUB CROP GROWERS
6113 GARDENERS, HORTICULTURAL AND NURSERY GROWERS
6114 MIXED CROP GROWERS
6115 VEGETABLE GROWERS

UNIT GROUP 6111 FIELD CROP GROWERS

Field Crop Growers plan and carry out the necessary operations to grow and harvest various types of field crops such as oil palm, rubber, coconut, tapioca, sugar cane and paddy for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:
a) determining the kinds and amounts of crops to be grown;
b) purchasing seeds, fertiliser and other supplies;
c) performing operations such as soil preparation, sowing, planting, loosening soil and harvest of crops;
d) storing and carrying out some basic processing of produce;
e) maintaining machinery and other equipment on the farm;

f) controlling weeds, pests and diseases by using herbicides and pesticides;
g) promoting and marketing products, arranging the sale, purchase and transport of products and supplies, as well as maintaining and evaluating records of farm activities and transactions;
h) training workers on the farm, supervising maintenance duties and health and safety precautions; and
i) performing related tasks.

Example of the occupations classified here: (refer to index; unit group 6111)

6111-01	Grower, Field Crop
6111-02	Grower, Rubber
6111-03	Grower, Coconut
6111-04	Grower, Oil Palm

UNIT GROUP 6112 SHRUB CROP GROWERS

Shrub Crop Growers plan and carry out the necessary operations to grow and harvest shrubs for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:
a) determining the kinds and amounts of crops to be grown;
b) purchasing seeds, fertiliser and other supplies;
c) performing operations such as soil preparation, sowing, planting, loosening soil, fertilising and harvest of crops;
d) maintaining the nursery, greenhouse, machinery and other equipment;
e) controlling weeds, pests and diseases with the use of herbicides and pesticides;
f) promoting and marketing products, arranging the sale, purchase and transport of products and supplies, as well as maintaining and evaluating records of farm activities and transactions;
g) training workers on the farm, supervising maintenance duties and health and safety precautions; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6112)

6112-01	Grower, Shrub Trees
6112-02	Grower, Coco
6112-03	Grower, Tea
6112-04	Grower, Pomegranate

UNIT GROUP 6113 GARDENERS, HORTICULTURAL AND NURSERY GROWERS

Gardeners, Horticultural and Nursery Growers plan and carry out the necessary operations to grow vegetables by intensive cultivation techniques, to cultivate trees, shrubs, flowers and other plants and to produce saplings, bulbs and seeds for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:
a) determining the kinds and amounts of vegetables, horticultural and nursery products to be grown;
b) performing operations such as soil preparation, sowing, planting and harvest of crops;
c) producing saplings, bulbs and seeds;
d) cultivating flowers, trees, shrubs and other plants in parks or public or private gardens;
e) growing plants for exhibition or medicinal purposes;
f) protecting and maintaining the green house, machinery and equipment in the nursery;
g) delivering or marketing products;
h) storing and carrying out some processing of produce; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6113)

6113-01	Gardener
6113-02	Flower Grower
6113-03	Horticulturist
6113-04	Hydroponics Grower

UNIT GROUP 6114 MIXED CROP GROWERS

Mixed Crop Growers plan and carry out the necessary operations to grow and harvest specific combinations of field crops, field vegetables, tree and shrub crops, garden, horticultural and nursery products, for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:

a) determining kinds and amounts of crops to be grown;
b) purchasing seeds, fertiliser and other supplies;
c) performing operations such as soil preparation, sowing, planting, tending and harvest of crops;
d) growing vegetables by intensive cultivation and producing saplings, bulbs and seeds;
e) storing and carrying out some processing of produce;
f) controlling weeds, pests and diseases by using herbicides and pesticides;
g) promoting and marketing products, arranging the sale, purchase and transport of products and supplies, as well as maintaining and evaluating records of farm activities and transactions;
h) training workers on the farm, supervising maintenance duties and health and safety precautions;
i) maintaining buildings, machinery and other equipment;
j) delivering or marketing products; and
k) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6114)

6114-01	Mixed Crop Grower
6114-02	Mixed Crop Farmer
6114-03	Skilled Farm Worker (mixed crops)

UNIT GROUP 6115 VEGETABLE GROWERS

Vegetable Growers plan and carry out the necessary operations to grow and harvest various types of vegetables for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:

a) determining the types and amounts of crops to be grown;
b) purchasing seeds, fertiliser and other supplies;
c) performing operations such as soil preparation, sowing, planting, tending and harvest of crops;
d) growing vegetables by intensive cultivation and producing saplings, bulbs and seeds;
e) storing and carrying out some processing of produce;
f) delivering or marketing products; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6115)

6115-01	Vegetable Grower
6115-02	Lentil Grower
6115-03	Chili Farmer
6115-04	Cabbage Grower

MINOR GROUP 612 ANIMAL PRODUCERS

Animal Producers plan and perform operations to breed and raise domesticated animals, poultry, insects and non-domesticated animals for the production of meat, dairy products, honey, skins, textiles and other products, or for use as working, sporting or recreational animals, for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Occupations in this minor group are classified into the following unit groups:

6121 LIVESTOCK AND DAIRY PRODUCERS
6122 POULTRY PRODUCERS
6123 APIARISTS AND SERICULTURISTS
6129 ANIMAL PRODUCERS AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 6121 LIVESTOCK AND DAIRY PRODUCERS

Livestock and Dairy Producers plan and carry out the necessary operations to breed, raise and tend livestock such as cattle, sheep, pigs, goats, horses, dogs and cats to be used as working, sporting or pet animals as well as to obtain meat, milk, wool, skin and other products for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:

a) determining the kinds and number of livestock and livestock products to be produced;
b) purchasing animals, producing and purchasing fodder and other supplies;
c) breeding, raising and tending livestock;
d) milking animals;
e) shearing coats to obtain wool;
f) preparing animals or animal products for the market;
g) storing and carrying out some processing of livestock products;
h) carrying out the work related to livestock reproduction such as breeding, artificial insemination, and helping with animal births;
i) maintaining buildings, machinery and farm equipment;
j) delivering or marketing farm products; and
k) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6121)

6121-01	Breeder, Livestock
6121-02	Breeder, Dairy
6121-03	Skilled Farm Worker, Mixed Animal Husbandry
6121-04	Producer, Dairy

UNIT GROUP 6122 POULTRY PRODUCERS

Poultry Producers plan and carry out the necessary operations to breed, raise and tend poultry to produce eggs, meat, nest or feathers and breeding stock for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:

a) determining the kinds and number of poultry and the products to be produced;
b) monitoring market activity, planning and coordinating production accordingly, and maintaining and evaluating records of farming activities;
c) monitoring and examining poultry to detect illness, injury or infection, and to check physical condition such as rate of weight gain, and removing weak, ill and dead poultry from the flock;
d) vaccinating livestock through drinking water, injection or dusting of air;
e) collecting, storing, packing and shipping products for sale on the market;
f) collecting, storing and packing eggs for sale on the market;
g) determining the sex of chicks and facilitating breeding, artificial insemination and hatching of eggs;
h) training and supervising workers on poultry production procedures, maintenance duties, and safety and health precautions;
i) storing and carrying out some processing of livestock products;
j) delivering or marketing farm products; and
k) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6122)

6122-01	Farmer, Goose
6122-02	Farmer, Chicken
6122-03	Farmer, Bird
6122-04	Farmer, Duck

UNIT GROUP 6123 APIARISTS AND SERICULTURISTS

Apiarists and Sericulturists plan and carry out the necessary operation to breed, raise and tend insects such as honey bees, silkworms and other species to produce honey, beeswax, silk and other products for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

Tasks include:
a) monitoring market activity, planning and coordinating production accordingly, monitoring market activity by regulations, determining the types and amounts of insect products to produce, planning and coordinating production accordingly;
b) purchasing and rearing insects or buying food and other supplies;
c) breeding, raising and tending insects, and collecting their products;
d) arranging the sale, purchase and transport of stock; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6123)

6123-01	Apiarist
6123-02	Farmer, Honey Bees
6123-03	Beekeeper
6123-04	Farmer, Kelulut

UNIT GROUP 6129 ANIMAL PRODUCERS AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Animal Producers and Related Workers Not Elsewhere Classified in Minor Group 612: Animal Producers. As an example, this group include Vaccinator, Worker, Incubator, Farmer, Snake and Farmer, Crocodile

Tasks include:
a) buying or setting up the necessary buildings, open or sheltered spaces, equipment, etc and maintaining them;
b) determining the kinds and number of animals to be raised;
c) breeding, raising, feeding and tending animals;
d) storing and carrying out some processing of the products; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6129)

6129-01	Vaccinator
6129-02	Worker, Incubator
6129-03	Farmer, Snake
6129-04	Farmer, Crocodile

MINOR GROUP 613 MIXED CROP AND ANIMAL PRODUCERS

Mixed Crop and Animal Producers plan and carry out the necessary operations for mixed farming of the kind that produces a combination of both crops and animals and related products, for delivery or sale on a regular basis to wholesale buyers, marketing organisations or at markets.

Occupations in this minor group are classified into the following unit groups::

6131 MIXED CROP AND ANIMAL PRODUCERS

UNIT GROUP 6131 MIXED CROP AND ANIMAL PRODUCERS

Mixed Crop and Animal Producers plan and carry out the necessary operations for mixed farming of the kind that produces a combination of both crops and animals and related products, for delivery or sale on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:
a) determining the kinds and amounts of crops to be grown;
b) controlling weeds, pests and diseases with the use of herbicides and pesticides;
c) purchasing seeds, fertiliser and other supplies;
d) storing and carrying out some processing of farm products;
e) performing operations such as soil preparation, sowing, planting, loosening soil and harvest of crops;
f) storing and carrying out some basic processing of farm products;
g) determining the kinds, amounts of livestock and livestock products to be produced;
h) maintaining machinery and other equipment in the field;
i) delivering or marketing farm products; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6131)

6131-01	Mixed Product Farmer (Crops and Husbandry)
6131-02	Farmer (Mixed Farming)
6131-03	Skilled Farm Worker (Mixed Farming)

SUB-MAJOR 62 MARKET-ORIENTED SKILLED FORESTRY, FISHERY AND HUNTING WORKERS

Market-Oriented Skilled Forestry, Fishery and Hunting Workers plan, organise and perform operations to cultivate, conserve and exploit natural and plantation forests, breed and raise fish, harvest and catch fish, and hunt and trap animals for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Occupations in this sub-major group are classified into the following minor groups::

621 SKILLED FORESTRY AND RELATED WORKERS
622 SKILLED FISHERY WORKERS, HUNTERS AND TRAPPERS

MINOR GROUP 621 SKILLED FORESTRY AND RELATED WORKERS

Skilled Forestry and Related Workers plan and carry out the necessary operations to cultivate, conserve and exploit forests for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Occupations in this minor group are classified into the following unit groups:

6211 SKILLED FORESTRY AND RELATED WORKERS

UNIT GROUP 6211 SKILLED FORESTRY AND RELATED WORKERS

Skilled Forestry and Related Workers carry out the necessary operations to cultivate, conserve and exploit forests for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:
a) establishing and tending the forest area;
b) locating trees to be felled and estimating the volume of timber;
c) trimming, topping and felling trees and sawing them into logs;
d) shaping rough wooden products from logs at felling site;
e) grading logs;
f) supervising logging work, conducting block surveys, grid lines, measurement, topography and tree census;
g) teaching trainees to handle and maintain heavy machinery for logging, technique to build timber roads and to extract timber from the jungle;
h) regulating forest development work, operations, enforcement of factories and encroachment of recreational forests; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6211)

6211-01	Forest Guard Grade G19
6211-02	Logger
6211-03	Forestry Tree Feller
6211-04	Chaser

MINOR GROUP 622 SKILLED FISHERY WORKERS, HUNTERS AND TRAPPERS

Skilled Fishery Workers, Hunters and Trappers catch, breed and cultivate fish and other forms of aquatic life or hunt and trap animals for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Occupations in this minor group are classified into the following unit groups:

6221 FISHERY AND AQUACULTURE PRODUCERS
6222 SKILLED INLAND AND COASTAL WATERS FISHERY WORKERS
6223 SKILLED DEEP-SEA FISHERY WORKERS
6224 HUNTERS AND TRAPPERS

UNIT GROUP 6221 FISHERY AND AQUACULTURE PRODUCERS

Fishery and Aquaculture Producers plan and carry out the necessary operations to breed and cultivate fish, mussels, oysters and other forms of aquatic life and produce aquatic products such as fishballs, crackers, otak-otak, shells, sea cucumber, dried aquatic products and the cultivation of ornamental fish for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

Tasks include:
a) planning and managing the operation of hatcheries taking into consideration environmental and market factors;
b) breeding, raising and tending fish and collecting its derivatives;
c) monitoring and maintaining water quality to maintain health standards and optimal growth conditions;
d) identifying and controlling against toxins and environmental diseases;
e) directing and supervising catching, grading and packaging of fish, prawns, oysters and stock of other aquatic life forms;
f) preparing fish and other products for shipment;
g) cleaning, freezing, pickling or salting aquatic products;
h) maintaining ponds, cages, water temperature and equipment;
i) delivering or marketing products; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6221)

6221-01	Farmer, Fishery Livestock
6221-02	Farmer, Fishery
6221-03	Pearl Culturist
6221-04	Skilled Fish Farm Worker

UNIT GROUP 6222 SKILLED INLAND AND COASTAL WATERS FISHERY WORKERS

Skilled Inland and Coastal Waters Fishery Workers, alone or as crewmen of fishing boats, catch fish or gather other forms of aquatic life in inland or coastal waters for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

Tasks include:
a) preparing and repairing nets and other fishing gear and equipment;
b) operating and maintaining the fishing boat to, from and at fishing grounds;
c) baiting, setting and hauling in fishing gear;
d) gathering different forms of aquatic life from shores and shallow waters;
e) cleaning, freezing or salting haul;
f) diving to gather oysters used for seed-pearl cultivation;
g) delivering or marketing products; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6222)

6222-01	Fishery Worker, Kelong
6222-02	Fishery Worker, Inland
6222-03	Fishery Worker, Coastal
6222-04	Diver, Pearl

UNIT GROUP 6223 SKILLED DEEP-SEA FISHERY WORKERS

Skilled Deep-Sea Fishery Workers, as crewmen of fishing boats, catch deep-sea fish for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

Tasks include:

a) preparing and repairing nets and other fishing gear and equipment;
b) operating and maintaining fishing vessels to, from and at fishing grounds;
c) baiting, setting and hauling in fishing gear;
d) cleaning, freezing, pickling or salting haul on- or offshore;
e) delivering or marketing the haul; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6223)

6223-01	Fishery Worker, Deep-Sea
6223-02	Fisherman (Deep Sea)
6223-03	Trawler Skipper
6223-04	Captain, Fishing: (Deep-Sea)

UNIT GROUP 6224 HUNTERS AND TRAPPERS

Hunters and Trappers catch and kill mammals, birds or reptiles mainly to obtain meat, skin, feathers and other products for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

Tasks include:

a) determining the types of mammals, birds or reptiles to hunt or trap;
b) setting traps to catch mammals, birds or reptiles;
c) killing trapped or free mammals, birds or reptiles with firearms or other weapons;
d) skinning and processing killed mammals, birds or reptiles to obtain desired products for sale or delivery;
e) delivering or selling trapped live mammals, birds or reptiles;
f) repairing and maintaining equipment; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6224)

6224-01	Hunter
6224-02	Trapper

SUB-MAJOR 63 SUBSISTENCE FARMERS, FISHERMEN, HUNTERS AND GATHERERS

Subsistence Farmers, Fishermen, Hunters and Gatherers grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruit and medicinal and other plants, hunt or trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

Occupations in this sub-major group are classified into the following minor :

631 SUBSISTENCE CROP FARMERS
632 SUBSISTENCE LIVESTOCK FARMERS
633 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS
634 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS

MINOR GROUP 631 SUBSISTENCE CROP FARMERS

Subsistence Crop Farmers grow and harvest field or tree and shrub crops, vegetables and fruit in order to provide food, shelter and a minimum cash income for themselves and their households.

Occupations in this minor group are classified into the following unit groups::

6311 SUBSISTENCE CROP FARMERS

UNIT GROUP 6311 SUBSISTENCE CROP FARMERS

Subsistence Crop Farmers grow and harvest field or tree and shrub crops, vegetables and fruit in order to provide food, shelter and a minimum cash income for themselves and their households.

Tasks include:
a) determining the kinds and amounts of crops to be grown;
b) purchasing seeds, fertiliser and other supplies;
c) performing operations such as soil preparation, sowing, planting, loosening soil and harvesting crops;
d) growing vegetables, fruit and shrubs, and other plants;
e) selling some products at local markets; and
f) performing related tasks.

Examples of the occupations classified here: **(refer to index; unit group 6311)**

6311-01 Subsitence Crop Grower

MINOR GROUP 632 SUBSISTENCE LIVESTOCK FARMERS

Subsistence Livestock Farmers breed, raise and tend livestock in order to provide food, shelter and a minimum cash income for themselves and their households.

Occupations in this minor group are classified into the following unit groups:

6321 SUBSISTENCE LIVESTOCK FARMERS

UNIT GROUP 6321 SUBSISTENCE LIVESTOCK FARMERS

Subsistence Livestock Farmers breed, raise and tend livestock in order to provide food, shelter and a minimum cash income for themselves and their household.

Tasks include:
a) determining the kinds and amounts of livestock and livestock products to be produced;
b) purchasing animals, producing and purchasing fodder and other supplies;
c) breeding, raising and tending livestock;
d) milking, slaughtering and skinning animals, and preparing animals or animal products for the market;
e) storing and carrying out some basic processing of livestock products;
f) delivering or marketing farm products; and
g) performing related tasks.

Examples of the occupations classified here: **(refer to index; unit group 6321)**

6321-01 Subsistence Livestock Farmers

MINOR GROUP 633 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS

Subsistence Mixed Crop and Livestock Farmers grow and harvest field or tree and shrub crops and various mixed crops, vegetables and wild fruit, medicinal and other plants, hunt or trap animals or catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

Occupations in this minor group are classified into the following unit groups:

6331 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS

UNIT GROUP 6331 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS

Subsistence Mixed Crop and Livestock Farmers grow and harvest field or tree and shrub crops and various mixed crops, vegetables and wild fruit, medicinal and other plants, hunt or trap animals or catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

Tasks include:

a) determining the kinds and amounts of livestock and livestock products to be produced and amounts of crops to be grown;
b) purchasing animals, producing and purchasing fodder and other supplies;
c) purchasing seeds, fertiliser and other supplies;
d) performing operations such as soil preparation, sowing, planting, loosening soil and harvesting crops;
e) breeding, raising and tending livestock;
f) milking, slaughtering and skinning animals, and preparing animals or animal products for the market;
g) storing and carrying out some basic processing of the crop and livestock products;
h) delivering or marketing farm products;
i) selling some products at local markets; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6331)

6331-01	Subsistence Mixed Crop and Livestock Farmers
6331-02	Farmer, Mixed: Subsistence
6331-03	Worker, Farm: Skilled (Subsistence Farming)

MINOR GROUP 634 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS

Subsistence Fishermen, Hunters, Trappers and Gatherers gather wild fruit, medicinal and other plants, and hunt and trap animals, and catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

Occupations in this minor group are classified into the following unit groups:

6341 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS

UNIT GROUP 6341 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS

Subsistence Fishermen, Hunters, Trappers and Gatherers gather wild fruit, medicinal and other plants, and hunt and trap animals, and catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

Tasks include:

a) gathering wild fruit, roots, medicinal and other plants;
b) hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products;
c) catching fish and gathering a various forms of other aquatic life;
d) gathering and picking various other products;
e) selling gathered products and preparing them for the local market; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 6341)

6341-01	Collector, Petai
6341-02	Collector, Resin
6341-03	Gatherer, Shellfish
6341-04	Collector, Bird's Nest

MAJOR GROUP 7

CRAFT AND RELATED TRADES WORKERS

CRAFT AND RELATED TRADES WORKERS

7

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

71 BUILDING AND RELATED TRADES WORKERS (EXCLUDING ELECTRICIANS)

711 BUILDING FRAME AND RELATED TRADES WORKERS

7111 HOUSE BUILDERS AND CONSTRUCTION WORKERS
7112 BRICKLAYERS AND RELATED WORKERS
7113 STONEMASONS, STONE CUTTERS, SPLITTERS AND CARVERS
7114 CONCRETE PLACERS, CONCRETE FINISHERS AND RELATED WORKERS
7115 CARPENTERS AND JOINERS
7119 BUILDING FRAME AND RELATED TRADES WORKERS NOT ELSEWHERE CLASSIFIED

712 BUILDING FINISHERS AND RELATED TRADES WORKERS

7121 ROOFERS
7122 FLOOR LAYERS AND TILE SETTERS
7123 PLASTERERS
7124 INSULATION WORKERS
7125 GLAZIERS
7126 PLUMBERS AND PIPE FITTERS
7127 AIR CONDITIONING AND REFRIGERATION MECHANICS

713 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES WORKERS

7131 PAINTERS AND RELATED WORKERS
7132 SPRAY PAINTERS AND VARNISHERS
7133 BUILDING STRUCTURE CLEANERS

72 METAL, MACHINERY AND RELATED TRADES WORKERS

721 SHEET AND STRUCTURAL METAL WORKERS, MOULDERS AND WELDERS AND RELATED TRADES WORKERS

7211 METAL MOULDERS AND COREMAKERS
7212 WELDERS AND FLAME CUTTERS
7213 SHEET-METAL WORKERS
7214 STRUCTURAL-METAL PREPARERS AND ERECTORS
7215 RIGGERS AND CABLE SPLICERS

722 BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS

7221 BLACKSMITHS, HAMMERSMITHS AND FORGING-PRESS WORKERS
7222 TOOLMAKERS AND RELATED WORKERS
7223 METAL WORKING MACHINE TOOL SETTERS AND OPERATORS
7224 METAL POLISHERS, WHEEL GRINDERS AND TOOL SHARPENERS

723 MACHINERY MECHANICS AND REPAIRERS

7231 MOTOR VEHICLE MECHANICS AND REPAIRERS
7232 AIRCRAFT ENGINE MECHANICS AND REPAIRERS
7233 AGRICULTURAL AND INDUSTRIAL MACHINERY MECHANICS AND REPAIRERS
7234 BICYCLE AND RELATED REPAIRERS
7239 MACHINERY MECHANICS AND REPAIRERS NOT ELSEWHERE CLASSIFIED

73 HANDICRAFT AND PRINTING WORKERS

731 HANDICRAFT WORKERS

7311 PRECISION INSTRUMENT MAKERS AND REPAIRERS
7312 MUSICAL INSTRUMENT MAKERS AND TUNERS
7313 JEWELLERY AND PRECIOUS METAL WORKERS
7314 POTTERS AND RELATED WORKERS
7315 GLASS MAKERS, CUTTERS, GRINDERS AND FINISHERS
7316 SIGN WRITERS, DECORATIVE PAINTERS, ENGRAVERS AND ETCHERS
7317 HANDICRAFT WORKERS OF WOOD, BASKETRY AND RELATED MATERIALS
7318 HANDICRAFT WORKERS OF TEXTILE, LEATHER AND RELATED MATERIALS
7319 HANDICRAFT WORKERS NOT ELSEWHERE CLASSIFIED

732 PRINTING TRADES WORKERS

7321 PRE-PRESS WORKERS
7322 PRINTERS
7323 PRINT FINISHING AND BINDING WORKERS
7324 PRINTING AND PHOTO ENGRAVERS AND ETCHERS

74 ELECTRICAL AND ELECTRONIC TRADES WORKERS

741 ELECTRICAL EQUIPMENT INSTALLERS AND REPAIRERS

7411 BUILDING AND RELATED ELECTRICIANS
7412 ELECTRICAL MECHANICS AND FITTERS
7413 ELECTRICAL LINE INSTALLERS AND REPAIRERS

742 ELECTRONICS AND TELECOMMUNICATIONS INSTALLERS AND REPAIRERS

7421 ELECTRONICS MECHANICS AND SERVICES
7422 INFORMATION AND COMMUNICATIONS TECHNOLOGY INSTALLERS AND SERVICES

75 FOOD PROCESSING AND RELATED WORKERS

751 FOOD PROCESSING AND RELATED WORKERS

7511 MEAT AND FISH PROCESSING WORKERS AND RELATED FOOD PREPARERS
7512 BAKERS, PASTRY, PASTA AND CONFECTIONERY MAKERS
7513 DAIRY-PRODUCT MAKERS
7514 FRUIT, VEGETABLE AND RELATED PRESERVERS
7515 FOOD AND BEVERAGE TASTERS AND GRADERS
7516 TOBACCO PREPARERS AND TOBACCO PRODUCT MAKERS

76 OTHER CRAFT WORKERS

761 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS

7611 WOOD TREATERS
7612 CABINET-MAKERS AND RELATED WORKERS
7613 WOODWORKING-MACHINE TOOL SETTERS AND OPERATORS

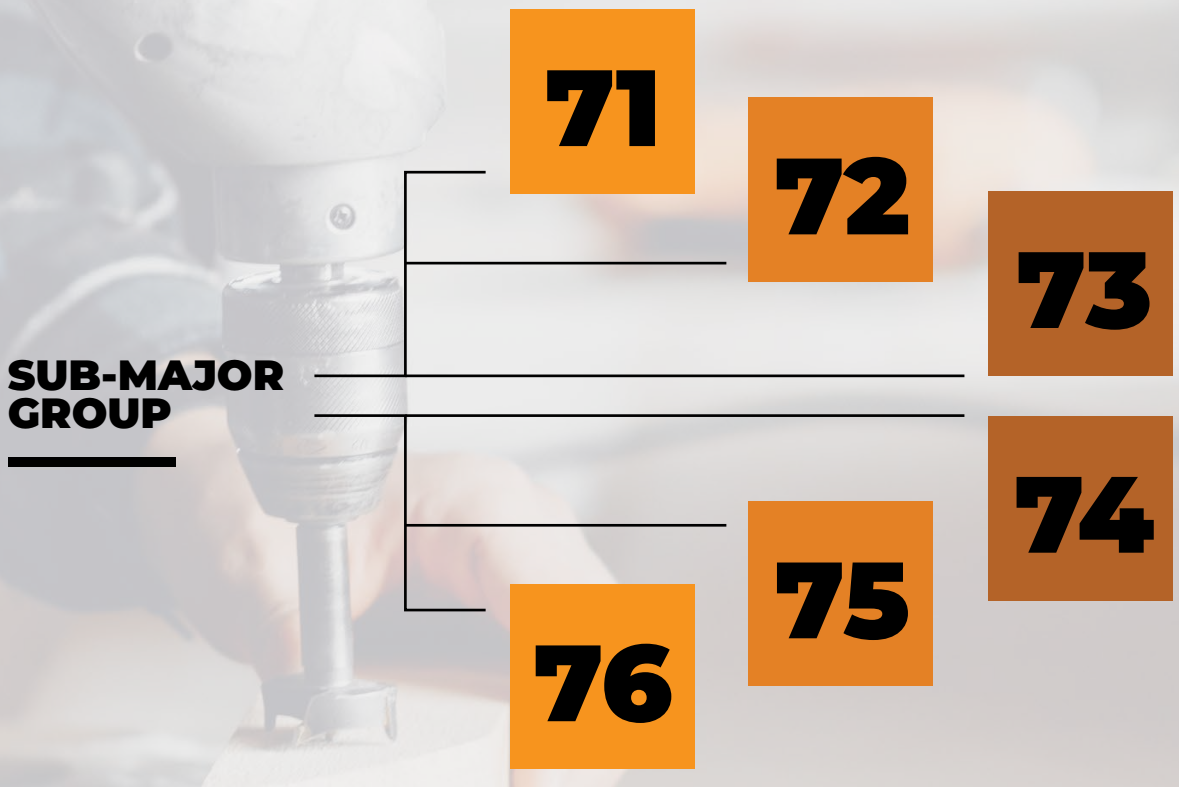
762 GARMENT AND RELATED WORKERS

7621 TAILORS, DRESSMAKERS, FURRIERS AND HATTERS
7622 GARMENT AND RELATED PATTERN-MAKERS AND CUTTERS
7623 SHOEMAKERS AND RELATED WORKERS
7624 UPHOLSTERERS AND RELATED WORKERS
7625 PELT DRESSERS, TANNERS AND FELLMONGERS

763 OTHER CRAFT AND RELATED WORKERS

7631 UNDERWATER DIVERS
7632 SHOTFIRERS AND BLASTERS
7633 PRODUCT GRADERS AND TESTERS (EXCLUDING FOODS AND BEVERAGES)
7634 FUMIGATORS AND PEST AND WEED CONTROLLERS
7639 OTHER RELATED CRAFT WORKERS NOT ELSEWHERE CLASSIFIED

CRAFT AND RELATED TRADES WORKERS



71 BUILDING AND RELATED TRADES WORKERS (EXCLUDING ELECTRICIANS)
72 METAL, MACHINERY AND RELATED TRADES WORKERS
73 HANDICRAFT AND PRINTING WORKERS
74 ELECTRICAL AND ELECTRONIC TRADES WORKERS
75 FOOD PROCESSING AND RELATED WORKERS
76 OTHER CRAFT WORKERS

Craft and Related Trades Workers

Description	**Apply their specific knowledge and skills in the fields of mining and construction, metal forming, and erect metal structures, make, fit, maintain and repair machinery, equipment or tools, carry out printing work as well as produce or process foodstuffs, textiles, or wooden, metal and other articles including handicraft goods.** **The work is carried out by hand or by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of all stages of the production process, the materials and tools used, and the nature and purpose of the final product.**
Skills level	**Most occupations in this major group require skills at the second level.**

Occupations in this major group are classified into the following sub-major groups:

71 BUILDING AND RELATED TRADES WORKERS (EXCLUDING ELECTRICIANS)
72 METAL, MACHINERY AND RELATED TRADES WORKERS
73 HANDICRAFT AND PRINTING WORKERS
74 ELECTRICAL AND ELECTRONIC TRADES WORKERS
75 FOOD PROCESSING AND RELATED WORKERS
76 OTHER CRAFT WORKERS

SUB MAJOR 71 BUILDING AND RELATED TRADES WORKERS (EXCLUDING ELECTRICIANS)

Building and Related Trades Workers (Excluding Technician) construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of the work organisation, the materials and tools used, and the nature and purpose of the final product.

Occupations in this sub-major group are classified into the following minor groups:

711 BUILDING FRAME AND RELATED TRADES WORKERS
712 BUILDING FINISHERS AND RELATED TRADES WORKERS
713 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES WORKERS

MINOR GROUP 711 BUILDING FRAME AND RELATED TRADES WORKERS

Building Frame and Related Trades Workers construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes, and perform miscellaneous building construction and maintenance tasks.

Occupations in this minor group are classified into the following unit groups:

7111 HOUSE BUILDERS AND CONSTRUCTION WORKERS
7112 BRICKLAYERS AND RELATED WORKERS
7113 STONEMASONS, STONE CUTTERS, SPLITTERS AND CARVERS
7114 CONCRETE PLACERS, CONCRETE FINISHERS AND RELATED WORKERS
7115 CARPENTERS AND JOINERS
7119 BUILDING FRAME AND RELATED TRADES WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 7111 HOUSE BUILDERS AND CONSTRUCTION WORKERS

House Builders and Construction Workers erect, maintain and repair houses and similar small buildings using either traditional or modern techniques and materials.

Tasks include:

a) preparing the ground for erecting a building or other structures;
b) erecting structures to support the roof and building, and covering walls with appropriate materials;
c) fixing rafters to the roof and covering with roofing material;
d) levelling the floor to make it smooth and serviceable;
e) maintaining and repairing existing structures;
f) arranging for specialised work such as bricklaying, painting, plumbing and electrical wiring to be done by subcontractors; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7111)

7111-01	House Builder
7111-02	Worker, Building Maintenance
7111-03	Scaffolder
7111-04	Building Frame Worker

UNIT GROUP 7112 BRICKLAYERS AND RELATED WORKERS

Bricklayers and Related Workers lay bricks, pre-cut stones and other types of building blocks to construct and repair walls, partitions, arches and other structures.

Tasks include:

a) laying stone, brick and similar building blocks to construct or repair walls, partitions, fireplaces and other structures such as smokestacks, furnaces, converters, kilns and ovens, piers and abutments;
b) laying footpaths, kerbs and pavements;
c) laying bricks or other masonry to build patios, garden walls and other decorative installations; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7112)

7112-01	Bricklayer
7112-02	Firebrick Layer
7112-03	Paviour
7112-04	Worker, Brickwork

UNIT GROUP 7113 STONEMASONS, STONE CUTTERS, SPLITTERS AND CARVERS

Stonemasons, Stone Cutters, Splitters and Carvers cut and shape hard and soft stone blocks and slabs for the construction and maintenance of stone structures and monumental masonry, and carve designs and figures in stone.

Tasks include:

a) driving wedges into quarried stone to break it into slabs or blocks;
b) selecting and grading slabs and blocks of granite, marble and other stone;
c) cutting, shaping and finishing building and monumental stone such as granite or marble by hand or using hand-powered tools;
d) making patterns and marking shapes on stone for subsequent sawing, lanning, drilling and other dressing and cutting operations;
e) cutting and carving characters, figures or designs on stone blocks used for monuments or memorials;
f) setting stone in the erection of monuments and memorials;
g) carrying out inspection, servicing and maintenance (based on their respective fields or specialisation);

h) repairing and replacing stonework on old buildings, churches and monuments; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7113)

7113-01	Splitter, Stone
7113-02	Lathe Stone Worker
7113-03	Cutter, Stone
7113-04	Sawyer, Stone

UNIT GROUP 7114 CONCRETE PLACERS, CONCRETE FINISHERS AND RELATED WORKERS

Concrete Placers, Concrete Finishers and Related Workers erect reinforced concrete frameworks and structures, make forms for moulding concrete, reinforce concrete surfaces, cement openings in walls or casings for wells, finish and repair cement surfaces and carry out terrazzo work.

Tasks include:
a) constructing and repairing reinforced concrete floors, walls, tanks, silos and other concrete structures;
b) making shuttering or assembling prefabricated forms for moulding concrete;
c) cementing openings in walls or casings for wells;
d) finishing and smoothing surfaces of concrete structures;
e) applying a durable, smooth surfacing composed of cement, sand pigment and marble particles to floors, known as a terrazzo finish; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7114)

7114-01	Reinforced Concrete Worker
7114-02	Shutterer, Concrete Moulding
7114-03	Shutterer, Concrete
7114-04	Worker, Iron Reinforcing

UNIT GROUP 7115 CARPENTERS AND JOINERS

Carpenters and Joiners cut, shape, assemble, erect, maintain and repair various types of wooden structures and fittings.

Tasks include:
a) making, altering and repairing structural and other woodwork at a workbench and on a construction site;
b) fitting, assembling and altering internal and external fixtures of buildings such as walls, doors, door and window frames, facings and panelling;
c) making, repairing and fitting props for theatrical performances, motion picture or television productions;
d) constructing, assembling, altering and repairing wooden fixtures and fittings in train coaches, aircraft, ships, boats, floats and other vehicles; and
e) carrying out inspection, servicing and maintenance work (based on field or specialisation); and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7115)

7115-01	Carpenter
7115-02	Carpenter, Construction
7115-03	Joiner, Construction
7115-04	Joiner, Ship

UNIT GROUP 7119 BUILDING FRAME AND RELATED TRADES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Building Frame and Related Trades Workers Not Elsewhere Classified in Minor Group 711: Building Frame and Related Trades Workers. As an example, this group include Drain Layer, Demolition Worker, Erector, Billboard and Steeplejack.

Tasks include:
a) performing miscellaneous construction and building maintenance work on structures such as office buildings, apartments, factories and similar establishments to keep them in good condition;
b) erecting temporary metal or wooden scaffolding on building sites;
c) demolishing buildings and other structures; and
d) performing related tasks.

Examples of the occupations classified here; **(refer to index; unit group 7119)**

7119-01	Drain Layer
7119-02	Demolition Worker
7119-03	Erector, Billboard
7119-04	Steeplejack

MINOR GROUP 712 BUILDING FINISHERS AND RELATED TRADES WORKERS

Building Finishers and Related Trades Workers cover, apply or install, maintain and repair roofs, floors, walls, insulation systems, glass in windows or other frames, as well as plumbing, piping and electrical systems in buildings and other structures.

Occupations in this minor group are classified into the following unit groups:

7121 ROOFERS
7122 FLOOR LAYERS AND TILE SETTERS
7123 PLASTERERS
7124 INSULATION WORKERS
7125 GLAZIERS
7126 PLUMBERS AND PIPE FITTERS
7127 AIR CONDITIONING AND REFRIGERATION MECHANICS

UNIT GROUP 7121 ROOFERS

Roofers build and repair roofs on all types of buildings using one or more kinds of materials.

Tasks include:
a) studying drawings, specifications and construction sites to determine materials required;
b) covering roof frameworks with slate and pre-fabricated tiles to cover pitched roofs;
c) laying a waterproof shield and fixing metallic or synthetic materials to a building frame;
d) sizing and cutting roofing materials to fit around edges, corners and protuberances such as chimneys;
e) using natural materials such as thatching to provide roof coverings; and
f) creating temporary structures such as scaffolding and ladders; and
g) performing related tasks.

Examples of the occupations classified here: **(refer to index; unit group 7121)**

7121-01	Roofer
7121-02	Roofer, Thatch
7121-03	Roofer, Asphalt
7121-04	Roofer, Asbestos

UNIT GROUP 7122 FLOOR LAYERS AND TILE SETTERS

Floor Layers and Tile Setters install, maintain and repair flooring, and cover floors, walls and other surfaces with tiles or mosaic panels for decorative or other purposes.

Tasks include:
a) preparing floor areas for covering with a variety of materials;
b) assembling carpet, tiles or other materials and laying them on floors according to design and other specifications;
c) preparing wall areas for covering with tiles or other materials for decorative or other purposes;

d) setting tiles and constructing and laying mosaic panels to walls, floors and other surfaces;
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7122)

7122-01	Installer, Tile
7122-02	Tile Setter
7122-03	Marble Setter
7122-04	Parquetry Worker

UNIT GROUP 7123 PLASTERERS

Plasterers install, maintain and repair plasterboard in buildings, and apply decorative and protective coverings of plaster, cement and similar material to the interiors and exteriors of structures.

Tasks include:
a) applying one or more coats of plaster to interior walls and ceilings of buildings to produce a finished surface;
b) measuring, marking and installing ornamental plaster panels, and casting and trimming ornamental plaster cornices;
c) applying protective and decorative covering of cement, plaster and similar materials to exterior building surfaces;
d) making and installing decorative plaster fixtures of fibrous plaster; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7123)

7123-01	Plasterer
7123-02	Plasterer, Stucco
7123-03	Plasterer, Fibrous
7123-04	Plasterer, Ornamental

UNIT GROUP 7124 INSULATION WORKERS

Insulation Workers apply and repair insulating materials to buildings, boilers, pipes or refrigeration and air-conditioning equipment.

Tasks include:
a) cutting insulation material by size and shape;
b) applying slabs and sheets of insulating or sound-absorbing materials to walls, floors and ceilings of buildings;
c) blowing and packing insulating or sound-absorbing materials into cavities between walls, floors and ceilings of buildings with power-driven machines;
d) examining plans, specifications and work sites to determine the type, quality and quantity of insulation material required;
e) applying insulating materials to exposed surfaces of equipment such as boilers, pipes and tanks;
f) insulating refrigeration and air-conditioning equipment; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7124)

7124-01	Insulation Worker
7124-02	Insulation Worker, Building
7124-03	Insulation Worker, Boiler
7124-04	Insulation Worker, Pipe

UNIT GROUP 7125 GLAZIERS

Glaziers measure, cut, finish, fit and install flat glass and mirrors.

Tasks include:

a) selecting the type of glass to be used, cutting it to the right size and shape and installing it in windows, doors, showers and partitions of buildings;
b) installing glass and mirrors in skylights, display cases, interior walls and ceilings;
c) installing or replacing windscreens in vehicles or boats;
d) creating decorative glass features such as glass walls, staircases, balustrades and stained-glass windows; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7125)

7125-01	Glazier
7125-02	Glazier, Building
7125-03	Glazier, Vehicle
7125-04	Glazier, Leaded-Glass

UNIT GROUP 7126 PLUMBERS AND PIPE FITTERS

Plumbers and Pipe Fitters assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment.

Tasks include:

a) measuring, cutting, threading, bending, jointing, assembling, installing, maintaining and repairing pipes, fittings and fixtures of drainage, heating, water supply and sewerage systems;
b) installing gas appliances, dishwashers and water heaters, sinks and toilets using hand and power tools;
c) laying clay, concrete or cast-iron pipes in ditches to form sewers, drains or water mains, or for other purposes;
d) inspecting, examining and testing installed systems and pipes using pressure gauge, hydrostatic testing, observation or other methods; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7126)

7126-01	Plumber
7126-02	Pipe Fitter
7126-04	Pipe Tube Fitter, Aircraft
7126-05	Pipe Fitter, Water Supply

UNIT GROUP 7127 AIR CONDITIONING AND REFRIGERATION MECHANICS

Air Conditioning and Refrigeration Mechanics assemble, install, maintain and repair air conditioning and refrigeration systems and equipment.

Tasks include:

a) interpreting blueprints, drawings or other specifications;
b) assembling, installing and repairing components for air conditioning and refrigeration systems;
c) connecting piping and equipment by bolting, riveting, welding or brazing;
d) testing systems, diagnosing faults and performing routine maintenance or servicing;
e) carrying out inspection, servicing and maintenance (based on field or specialisation such as civil, mechanical and electrical); and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7127)

7127-01	Refrigeration Equipment Mechanic
7127-02	Air-Conditioning Equipment Mechanic

MINOR GROUP 713 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES WORKERS

Painters, Building Structure Cleaners and Related Trades Workers prepare surfaces and apply paint and similar materials to buildings and other structures, vehicles or various manufactured articles. They cover interior walls and ceilings with wallpaper, clean chimneys and exterior surfaces of buildings and other structures.

Occupations in this minor group are classified into the following unit groups:

7131 PAINTERS AND RELATED WORKERS
7132 SPRAY PAINTERS AND VARNISHERS
7133 BUILDING STRUCTURE CLEANERS

UNIT GROUP 7131 PAINTERS AND RELATED WORKERS

Painters and Related Workers prepare surfaces of buildings and other structures for painting, apply protective and decorative coats of paint or similar materials, or cover interior walls and ceilings of buildings with wallpaper or other finishes.

Tasks include:
a) cleaning and preparing walls and other surfaces of buildings for painting or wallpapering;
b) selecting and preparing paints to required colours by mixing pigments and additives;
c) applying or spraying paint, varnish, and similar materials to surfaces, fixtures and fittings of buildings;
d) measuring and hanging wallpaper or other fabrics on interior walls and ceilings;
e) applying paints, varnishes and stains to surfaces using brushes, rollers and sprays;
f) carrying out inspection, servicing and maintenance (based on field or specialisation); and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7131)

7131-01	Painter
7131-02	Painter, Glass
7131-03	Painter, Ceramics
7131-04	Painter, Building

UNIT GROUP 7132 SPRAY PAINTERS AND VARNISHERS

Spray Painters and Varnishers operate spray painting and varnishing equipment to apply protective coatings to manufactured items or structures.

Tasks include:
a) preparing surfaces to be coated using a variety of methods to remove grease, dirt and rust;
b) painting cars, buses, trucks and other vehicles, and applying varnish and other protective coatings;
c) applying paint as well as protective coatings of enamel or varnish on metal, wooden and other manufactured products, usually with a hand-spraying device; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7132)

7132-01	Spray Painter
7132-02	Spray Painter, Metal
7132-03	Spray Painter, Vehicles
7132-04	Varnisher

UNIT GROUP 7133 BUILDING STRUCTURE CLEANERS

Building Structure Cleaners clean exterior surfaces of buildings and other structures, and remove soot from chimneys.

Tasks include:
a) cleaning exterior surfaces of stone, brick, metal or similar materials by means of chemicals, a jet of steam or sand applied under great pressure;
b) removing soot from flues, chimneys and connecting pipes; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7133)

7133-01	Cleaner, Building Exteriors
7133-02	Sandblaster (Building Exteriors)
7133-03	Chimney Sweeper

SUB-MAJOR 72 METAL, MACHINERY AND RELATED TRADES WORKERS

Metal, Machinery and Related Trades Workers cast, weld, forge and form metal, erect, maintain and repair heavy metal structures, install electrical wiring systems, fit, maintain and repair machinery including engines, vehicles, electrical and electronic equipment, or produce tools and various non-precious metal articles.

Occupations in this sub-major group are classified into the following minor groups:

721 SHEET AND STRUCTURAL METAL WORKERS, MOULDERS AND WELDERS AND RELATED TRADES WORKERS
722 BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS
723 MACHINERY MECHANICS AND REPAIRERS

MINOR GROUP 721 SHEET AND STRUCTURAL METAL WORKERS, MOULDERS AND WELDERS AND RELATED TRADES WORKERS

Sheet and Structural Metal Workers, Moulders and Welders and Related Trades Workers make moulds and cores for casting metal, weld and cut metal parts, make, install and repair articles of sheet metal, install, erect, maintain and repair heavy metal structures, tackle, cable cars and related equipment.

Occupations in this minor group are classified into the following unit groups:

7211 METAL MOULDERS AND COREMAKERS
7212 WELDERS AND FLAME CUTTERS
7213 SHEET-METAL WORKERS
7214 STRUCTURAL-METAL PREPARERS AND ERECTORS
7215 RIGGERS AND CABLE SPLICERS

UNIT GROUP 7211 METAL MOULDERS AND COREMAKERS

Metal Moulders and Coremakers make moulds and cores for casting metal.

Tasks include:
a) making moulds by hand or by using auxiliary machines on a bench for small metal castings, or on the foundry floor or in a pit for large castings;
b) making cores for use in metal moulds;
c) carrying out inspection, servicing and maintenance (based on field or specialisation); and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7211)

7211-01	Mould Maker
7211-02	Mould Repairer, Foundry
7211-03	Moulder, Floor, Foundry
7211-04	Moulder, Metal

UNIT GROUP 7212 WELDERS AND FLAME CUTTERS

Welders and Flame Cutters weld and cut metal parts using gas flame, or an electric arc and other sources of heat to melt and cut or to melt and fuse metal.

Tasks include:

a) welding metal parts using gas flame, or an electric arc, thermite compound or other methods;
b) operating resistance-welding machines; using a blowtorch to make and repair lead linings, pipes, floors and other lead fixtures;
c) brazing metal parts together;
d) cutting metal pieces using gas flame or an electric arc;
e) joining metal parts by hand soldering; and
f) carrying out inspection, servicing and maintenance (based on field or specialisation); and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7212)

7212-01	Welder
7212-02	Flame Cutter
7212-03	Foreman, Welder
7212-04	Plumbum Burner

UNIT GROUP 7213 SHEET-METAL WORKERS

Sheet-Metal Workers make, install and repair articles and parts of articles of sheet metal such as stainless steel, copper, tin, brass, aluminium, zinc or galvanised iron.

Tasks include:

a) marking sheet metal for cutting and shaping;
b) making and repairing household utensils and other articles in tin, copper and light alloys, or ornamental articles and fittings;
c) making and repairing boilers, tanks, vats and similar containers;
d) installing and repairing sheet metal parts of vehicles and aircraft;
e) carrying out inspection, servicing and maintenance (based on field or specialisation); and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7213)

7213-01	Sheet-Metal Worker
7213-02	Coppersmith
7213-03	Boilermaker
7213-04	Borer

UNIT GROUP 7214 STRUCTURAL-METAL PREPARERS AND ERECTORS

Structural-Metal Preparers and Erectors assemble, erect and dismantle structural metal frames of buildings and other structures.

Tasks include:

a) marking metal framework as a guide when drilling, cutting and shaping for use in buildings, ships and other structures;
b) drilling, cutting and shaping structural steel in a workshop;
c) erecting steel frameworks for buildings, bridges and other constructions;
d) assembling and erecting the framework and other metal parts of ship structures;
e) shaping and fitting structural-steel plates of ships under construction or repair;
f) riveting structural-metal members by hand, machine or pneumatic riveter; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7214)

7214-01	Structural Steel Worker
7214-02	Erector, Constructional Steel
7214-03	Ship Plater
7214-04	Riveter

UNIT GROUP 7215 RIGGERS AND CABLE SPLICERS

Riggers and Cable Splicers assemble rigging gear to move and position equipment and structural components, or install and maintain cables, ropes and wires on construction sites, buildings or other structures.

Tasks include:

a) estimating the size, shape and weight of objects to be moved and deciding on the type of equipment to move them;
b) installing and repairing cables, ropes, wires, pulleys and other tackle;
c) joining, repairing and fitting attachments to wires, ropes and cables;
d) working as members of crew erecting and repairing derricks for drilling water, gas and oil wells;
e) lifting equipment in theatres, installing and maintaining communication towers, aerial cableways, funicular railways, ski lifts and similar infrastructure;
f) carrying out inspection, servicing and maintenance (based on field or specialisation such as electrical); also supervising and monitoring development projects / new installation and maintenance (including upgrading work); and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7215)

7215-01	Rigger
7215-02	Rigger, Hoisting Equipment
7215-03	Rigger, Hoisting Equipment Construction
7215-04	Rigger, Logging

MINOR GROUP 722 BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS

Blacksmiths, Toolmakers and Related Trades Workers hammer and forge bars, rods or ingots of iron, steel and other metals to make and repair various kinds of tools, equipment and other articles, and polish and sharpen metal surfaces.

Occupations in this minor group are classified into the following unit groups:

7221 BLACKSMITHS, HAMMERSMITHS AND FORGING-PRESS WORKERS
7222 TOOLMAKERS AND RELATED WORKERS
7223 METAL WORKING MACHINE TOOL SETTERS AND OPERATORS
7224 METAL POLISHERS, WHEEL GRINDERS AND TOOL SHARPENERS

UNIT GROUP 7221 BLACKSMITHS, HAMMERSMITHS AND FORGING-PRESS WORKERS

Blacksmiths, Hammersmiths and Forging-Press Workers draw wire, hammer and forge bars, rods, ingots and plates of iron, steel or other metals to make and repair various kinds of tools, metal articles, pieces of equipment, agricultural and related implements.

Tasks include:

a) carrying out inspection, servicing and maintenance (based on field or specialisation);
b) heating metal in a forge furnace and manufacturing and repairing articles by drawing, bending, cutting, hammering metal on an anvil, punching, shearing, joining and hardening or tempering metal;
c) shaping heated metal into forgings on power hammer equipped with open dies;
d) operating closed die-drop hammer to forge metal articles;
e) operating a power-press machine equipped with closed dies to forge metal articles; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7221)

7221-01	Blacksmith
7221-02	Hammersmith
7221-03	Worker, Drop Hammer
7221-04	Worker, Forging Metal

UNIT GROUP 7222 TOOLMAKERS AND RELATED WORKERS

Toolmakers and Related Workers make and repair tools, sports guns, locks, dies, patterns and other metal articles, as well as make engines or machinery components, and parts thereof, using hand and machine tools to work metal to fine tolerances.

Tasks include:

a) making, maintaining and repairing dies, jigs, gauges and fixtures using hand tools and various kinds of machine tools;
b) making engines or machinery components, and parts thereof;
c) fitting and assembling parts to make and repair jigs, fixtures and gauges;
d) repairing and modifying sports guns and other small firearms;
e) making, fitting, assembling, repairing and installing lock parts and locks;
f) making and repairing metal patterns used in making foundry moulds;
g) laying out lines and reference points on metal stock to guide other workers who cut, turn, mill, grind or shape metal;
h) carrying out inspection, servicing and maintenance (based on field or specialisation such as civil, mechanical and electrical); and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7222)

7222-01	Tool and Die Maker
7222-02	Pattern-Maker, Metal Foundry
7222-03	Jig Maker and Fixture
7222-04	Marker, Metal

UNIT GROUP 7223 METAL WORKING MACHINE TOOL SETTERS AND OPERATORS

Metal Working Machine Tool Setters and Operators set and/or operate various working machine tools.

Tasks include:

a) setting one or more types of machine tools for metal production in the standard series;
b) operating and monitoring metal working machines like lathes, milling, planing, boring, drilling, grinding or sharpening machines, including multi-purpose numerical control metal working machines;
c) monitoring machine operation to detect defects or damage to the machine, and if necessary adjust the machine; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7223)

7223-01	Metal Working Machine Adjuster
7223-02	Metal Working Machine Operator
7223-03	Metal Working Machine Setter
7223-04	Boring Machine Operator

UNIT GROUP 7224 METAL POLISHERS, WHEEL GRINDERS AND TOOL SHARPENERS

Metal Polishers, Wheel Grinders and Tool Sharpeners grind and polish metal surfaces and sharpen tools.

Tasks include:
a) operating fixed or portable buffing and polishing machines;
b) sharpening cutting tools and instruments using grinding wheels or mechanically operated grinding machines;
c) repairing, adjusting and sharpening saw blades and metal teeth of cylinders in textile carding machines;
d) grinding crank pins and crankshaft journals accurately to uniform diameters by special grinding machine and attachments; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7224)

7224-01	Metal Grinder
7224-02	Cutting Instrument Sharpener
7224-03	Machine Tool Sharpener
7224-04	Saw Repairer

MINOR GROUP 723 MACHINERY MECHANICS AND REPAIRERS

Machinery Mechanics and Repairers fit, install, service and repair engines, vehicles, agricultural or industrial machinery and mechanical equipment.

Occupations in this minor group are classified into the following unit groups:

7231 MOTOR VEHICLE MECHANICS AND REPAIRERS
7232 AIRCRAFT ENGINE MECHANICS AND REPAIRERS
7233 AGRICULTURAL AND INDUSTRIAL MACHINERY MECHANICS AND REPAIRERS
7234 BICYCLE AND RELATED REPAIRERS
7239 MACHINERY MECHANICS AND REPAIRERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 7231 MOTOR VEHICLE MECHANICS AND REPAIRERS

Motor Vehicle Mechanics and Repairers install, service and repair motor vehicles.

Tasks include:
a) fitting, examining, adjusting, dismantling, rebuilding and replacing defective parts of motor vehicles;
b) installing or adjusting motors and brakes, and adjusting steering or other parts of motor vehicles;
c) being responsible for electrical systems and installation (repair and maintenance of equipment); and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7231)

7231-01	Mechanic
7231-02	Earth-Moving Equipment Mechanic
7231-03	Motorcycle Mechanic
7231-04	Motor Vehicles Mechanic

UNIT GROUP 7232 AIRCRAFT ENGINE MECHANICS AND REPAIRERS

Aircraft Engine Mechanics and Repairers repair and maintain the operating condition of aircraft engines, including helicopter engines.

Tasks include:
a) replacing or repairing worn, defective, or damaged components using hand tools, gauges and testing equipment;
b) testing engine operation using test equipment such as ignition analyser, compression checker, distributor timer and ammeter to identify malfunction;
c) listening to operating engine to detect and diagnose malfunctions, such as stuck or burned valves;
d) reassembling engine and installing engine in aircraft;
e) disassembling and inspecting engine parts, such as turbine blades and cylinders, for wear, warping, cracks and leaks; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7232)

7232-01	Aircraft Engine Mechanic
7232-02	Aircraft Engine Fitter
7232-03	Aircraft Maintenance Engineer (Airframes) Mechanic
7232-04	Helicopter Mechanic

UNIT GROUP 7233 AGRICULTURAL AND INDUSTRIAL MACHINERY MECHANICS AND REPAIRERS

Agricultural and Industrial Machinery Mechanics and Repairers repair, install, adjust or maintain agricultural and industrial production and processing machinery or refinery and pipeline distribution systems.

Tasks include:

a) fitting, examining, testing and servicing engines, agricultural or industrial machinery and mechanical equipment;
b) replacing engine components;
c) oiling and greasing engines and machinery;
d) inspecting and testing new machinery and mechanical equipment for conformity with standards and specifications; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7233

7233-01	Machinery Mechanic
7233-02	Mining Machinery Mechanic
7233-03	Mechanic, Machine Tool
7233-04	Mechanic, Industrial Machinery

UNIT GROUP 7234 BICYCLE AND RELATED REPAIRERS

Bicycle and Related Repairers install, maintain, service and repair mechanical and related equipment of bicycles, trishaws, baby carriages, wheelchairs and similar non-motorised transport.

Tasks include:

a) installing, repairing and replacing equipment or accessories such as handlebars, footrests, lights and seats;
b) aligning wheels;
c) installing and adjusting speed and gear mechanisms;
d) disassembling axle to repair, adjust and replace defective parts using hand tools;
e) repairing holes in tyre tubes using scraper and patch;
f) shaping replacement parts using bench grinder;
g) assembling new bicycles;
h) painting bicycle frames using spray gun or brush;
i) welding together broken or cracked frames using oxyacetylene torch and welding rods; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7234)

7234-01	Bicycle Repairer
7234-02	Trishaw Repairer
7234-03	Reel Repairer
7234-04	Bicycle Mechanic

UNIT GROUP 7239 MACHINERY MECHANICS AND REPAIRERS NOT ELSEWHERE CLASSIFIED

Machinery Mechanics and Repairers Not Elsewhere Classified install, maintain, service and repair mechanical and related equipment for marine vessels, trains and the like.

Tasks include:
a) installing, repairing and replacing equipment or accessories in marine vessels, trains and the like; and
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7239)

7239-01	Marine Engine Mechanic
7239-02	Ship Mechanic
7239-03	Train Engine Fitter
7239-04	Train Engine Repairer

SUB-MAJOR 73 HANDICRAFT AND PRINTING WORKERS

Handicraft and Printing Workers make and repair precision instruments, musical instruments, various articles such as jewellery, precious metalware, ceramics, porcelain and glassware including handicraft items made of wood, textile, leather or related materials, or they perform printing or book-binding tasks.

Occupations in this sub-major group are classified into the following minor groups:

731 HANDICRAFT WORKERS
732 PRINTING TRADES WORKERS

MINOR GROUP 731 HANDICRAFT WORKERS

Handicraft Workers combine artistic and manual skills to design, make, repair, adjust, maintain and decorate precision instruments, musical instruments, jewellery and other precious metals, pottery and porcelain ware. They apply traditional and/or modern techniques to carve, mould, assemble, weave and decorate various glass, ceramic, textile, straw, stone, wood and leather articles.

Occupations in this minor group are classified into the following unit groups:

7311 PRECISION INSTRUMENT MAKERS AND REPAIRERS
7312 MUSICAL INSTRUMENT MAKERS AND TUNERS
7313 JEWELLERY AND PRECIOUS METAL WORKERS
7314 POTTERS AND RELATED WORKERS
7315 GLASS MAKERS, CUTTERS, GRINDERS AND FINISHERS
7316 SIGN WRITERS, DECORATIVE PAINTERS, ENGRAVERS AND ETCHERS
7317 HANDICRAFT WORKERS OF WOOD, BASKETRY AND RELATED MATERIALS
7318 HANDICRAFT WORKERS OF TEXTILE, LEATHER AND RELATED MATERIALS
7319 HANDICRAFT WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 7311 PRECISION INSTRUMENT MAKERS AND REPAIRERS

Precision Instrument Makers and Repairers make, repair and calibrate mechanical watches, clocks, nautical, meteorological, optical, surgical, dental, orthopaedic and other precision instruments and equipment.

Tasks include:
a) making, adjusting and repairing mechanical watches and clocks;
b) making, adjusting and repairing nautical and meteorological instruments and equipment;
c) making, adjusting and repairing optical instruments;
d) making, adjusting and repairing surgical instruments and other medical equipment;
e) making and repairing medical, orthopaedic and dental appliances and prostheses;
f) calibrating instruments using standard weights and measures and using hand tools to adjust and align parts and small balancing weights; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7311)

7311-01	Precision Instrument Maker
7311-02	Surgical Instrument Maker
7311-03	Scientific Instrument Maker
7311-04	Photographic Equipment Maker

UNIT GROUP 7312 MUSICAL INSTRUMENT MAKERS AND TUNERS

Musical Instrument Makers and Tuners make, repair, adjust and restore musical instruments and tune them to the required pitch using hand or tools. They usually specialise in one type of instrument.

Tasks include:
a) making and repairing accordions, stringed and wind instruments;
b) building and repairing organ and making parts for organs;
c) assembling and repairing pianos;
d) tuning pianos and other instruments;
e) making, assembling and repairing other musical instruments; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7312)

7312-01	Musical Instrument Maker
7312-02	Musical Instrument Tuner
7312-03	Stringed-Musical Instrument Maker
7312-04	Piano Maker

UNIT GROUP 7313 JEWELLERY AND PRECIOUS METAL WORKERS

Jewellery and Precious Metal Workers design, fabricate, adjust, repair or appraise jewellery, ceremonial or religious items, gold, silver, other precious metals or gems. They cut, file, polish and set stones including gems and diamonds, and engrave designs on jewellery and precious metal articles. They cut and polish diamonds for industrial purposes.

Tasks include:
a) casting jewellery and other non-ferrous metal articles by hand;
b) making jewellery articles such as rings, brooches and bracelets;
c) cutting and polishing gems and setting them in jewellery articles;
d) making, remodelling and repairing precious metalware;
e) rolling and hammering precious metals;
f) engraving letters and designs on jewellery and precious metalware; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7313)

7313-01	Jeweller
7313-02	Goldsmith
7313-03	Silversmith
7313-04	Pewtersmith

UNIT GROUP 7314 POTTERS AND RELATED WORKERS

Potters and Related Workers make pottery, porcelain ware, bricks and tiles.

Tasks include:
a) making articles of pottery and porcelain;
b) making clay or plaster of Paris moulds;
c) forming articles on the potter's wheel with the hands, or using interior or exterior moulding shapes and shaping tools;
d) forming articles by casting semi-liquid clay in plaster of Paris moulds;
e) forming bricks and tiles into special shapes by hand;
f) making articles by pressing plastic clay into moulds by hand;
g) operating screw-press or hydraulic press to make products of clay dust;

h) operating a machine which extrudes moist clay for further processing; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7314)

7314-01	Potter
7314-02	Presser, Brick and Tile
7314-03	Modeller, Pottery and Porcelain
7314-04	Caster, Pottery and Porcelain

UNIT GROUP 7315 GLASS MAKERS, CUTTERS, GRINDERS AND FINISHERS

Glass Makers, Cutters, Grinders and Finishers blow, mould, press, roll and shape molten glass, and cut, grind and polish glass.

Tasks include:
a) shaping molten glass by means of blowpipe, hand moulding, heating and bending;
b) heating, moulding and pressing optical glass to make clear lenses;
c) grinding and polishing clear lenses;
d) grinding and bevelling edges of glass;
e) cutting sheet glass with hand tools and sawing prisms and other shapes from optical glass blocks;
f) assisting research officers in conducting research and development in the field of science related to the use of nuclear technology and technology connected to the tasks of designing fabrications and producing glass tools and equipment; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7315)

7315-01	Glass Bender
7315-02	Glass Blower
7315-03	Glass Cutter
7315-04	Optical Glass Cutter

UNIT GROUP 7316 SIGN WRITERS, DECORATIVE PAINTERS, ENGRAVERS AND ETCHERS

Sign Writers, Decorative Painters, Engravers and Etchers design, illustrate and decorate silver, gold, steel or glass and other materials for personal, household use or for decorative purposes.

Tasks include:
a) cutting and designing surfaces in a variety of shapes and sizes that yield a variety of decorations;
b) cutting designs on glass surfaces with sandblasting equipment;
c) illustrating, covering and painting surfaces such as walls, linen, paper and other materials;
d) engraving monograms and ornamental designs on glassware; and
e) etching decorative designs, calibration markings and other figures on glass ware.

Examples of the occupations classified here: (refer to index; unit group 7316)

7316-01	Etcher
7316-02	Engraver
7316-03	Sandblaster, Glass
7316-04	Ceramic Dipper

UNIT GROUP 7317 HANDICRAFT WORKERS OF WOOD, BASKETRY AND RELATED MATERIALS

Handicraft Workers of Wood, Basketry and Related Materials apply traditional and/or modern techniques to prepare articles from wood, straw, rattan, reeds, stone, clay, shells and other materials, and carve, mould, assemble, weave or paint and decorate various articles for personal or household use or for decorative purposes.

Tasks include:

a) preparing wood, straw, rattan, reeds, stone, shells or similar materials;
b) carving, assembling, weaving, painting and decorating various articles for personal or household use such as salad bowls, spoons, cutting boards, trays, vases, jugs, baskets, straw hats, straw mats and similar objects;
c) carving, assembling, weaving and painting various decorative articles such as statues and other sculptures;
d) making wicker furniture from peeled and softened rattan, reeds, rushes, willow branches and similar materials;
e) making various kinds of baskets by interlacing rattan, reeds, rushes or similar materials;
f) selecting and preparing brush materials such as bristles, nylon, fibres and wire, and setting them in brush base;
g) selecting and preparing materials such as broom;
h) making mats of coconut or palm fronds and grasses; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7317)

7317-01	Mat Weaver
7317-02	Handicraft Worker, Wooden Articles
7317-03	Basket Maker
7317-04	Broom Maker

UNIT GROUP 7318 HANDICRAFT WORKERS OF TEXTILE, LEATHER AND RELATED MATERIALS

Handicraft Workers of Textile, Leather and Related Materials apply traditional and/or modern techniques to produce various articles for personal or household use, as well as for decorative purposes.

Tasks include:

a) preparing carving, moulding, assembling, painting and decorating various decorative articles; weaving, knitting, embroidering and lace-making;
b) producing traditional footwear; and
c) producing handbags, belts and other accessories.

Examples of the occupations classified here: (refer to index; unit group 7318)

7318-01	Weaver, Songket
7318-02	Batik Painter
7318-03	Maker, Leather Goods
7318-04	Handicraft Worker, Carpets

UNIT GROUP 7319 HANDICRAFT WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Handicraft Workers Not Elsewhere Classified in minor group 731: Handicraft Workers. As an example, this group include Badge Maker, Craftsman, Metal Toymaker and Accessories Maker

Tasks include:

a) preparing, carving, moulding, assembling, painting and decorating a variety of goods; and
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7319)

7319-01	Badge Maker
7319-02	Craftsman
7319-03	Metal Toymaker
7319-04	Accessories Maker

MINOR GROUP 732 PRINTING TRADES WORKERS

Printing Trades Workers set and arrange printing type, stencil on paper and other materials, or bind and finish books and operate the offset machine, offset camera, plate making machine, copier, scanner and maintain the machines before, during and after use.

Occupations in this minor group are classified into the following unit groups:

7321 PRE-PRESS WORKERS
7322 PRINTERS
7323 PRINT FINISHING AND BINDING WORKERS
7324 PRINTING AND PHOTO ENGRAVERS AND ETCHERS

UNIT GROUP 7321 PRE-PRESS WORKERS

Pre-Press Workers proof, format, set and compose text and graphics in a form suitable for the various printing processes.

Tasks include:
a) overseeing and managing the offset machine, offset camera, plate making machine, copier, scanner and maintain the machines thoroughly before, during and after use;
b) arranging for printing;
c) operating graphic cameras and other photographic equipment to produce camera-ready copy onto films, plates and digital output devices;
d) using computer applications to produce an image, text, layout and imposition for printing and other visual media displays;
e) operating equipment which produces images from film to printing plates, digital output devices and presses;
f) operating computer screen-based equipment for scanning, colour separation, colour correction, masking, creative design, combining, imposing, retouching and other processes used to transfer copy to film and produce film for plate, digital output and cylinder production; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7321)

7321-01	Compositor
7321-02	Braille Plate Maker
7321-03	Typesetter
7321-04	Desktop Publishing Equipment Worker

UNIT GROUP 7322 PRINTERS

Printers print from stencils and operate printing equipment and maintain the machines before, during and after use.

Tasks include:
a) cutting stencils for printing;
b) printing on paper, metal, textiles and other materials by silk-screen process;
c) printing designs and patterns on cloth or wallpaper with engraved blocks or machines equipped with engraved rollers;
d) reproducing copies of textile designs by tracing them onto transparent materials; and
e) mixing ink and solvents, and controlling the supply of paper and ink during the printing process;
f) monitoring the operation of the machine and the quality of printing;
g) adjusting, maintaining, repairing and cleaning the printing press;
h) producing digital print images, transferring and outputting images; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7322)

7322-01	Printer
7322-02	Textile Printer
7322-03	Block Printer
7322-04	Press Operator, Embossing

UNIT GROUP 7323 PRINT FINISHING AND BINDING WORKERS

Print Finishing and Binding Workers bind books and other publications by hand or machine and finish printed products.

Tasks include:
a) binding books and periodicals by hand;
b) setting and operating bookbinding machines;
c) embossing designs or titles on books by hand or machine;
d) mounting maps and charts; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7323)

7323-01	Bookbinder
7323-02	Paper Cutter
7323-03	Map and Chart Mounter
7323-04	Book Embosser

UNIT GROUP 7324 PRINTING AND PHOTO ENGRAVERS AND ETCHERS

Printing and Photo Engravers and Etchers engrave lithographic stones and printing plates, rollers, dies and blocks by various processes, develop and process photographic film and make prints.

Tasks include:
a) cutting designs through film applied to surface of lithographic stones;
b) engraving steel and copper plates, rollers, dies or wood, rubber and linoleum blocks by hand;
c) engraving metal plates and rollers by machine;
d) transferring designs on lithographic stone to metal plates;
e) etching metal plates or rollers with acid and retouching;
f) performing all or several tasks in preparing printing plates by the photogravure process;
g) processing black and white or colour film;
h) printing black and white or colour photographs;
i) developing x-ray films; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7324)

7324-01	Engraver, Printing Metal Plate
7324-02	Etcher, Printing Metal Plate
7324-03	Engraver, Printing Lithographic Stone
7324-04	Photo-Engraver

SUB-MAJOR 74 ELECTRICAL AND ELECTRONIC TRADES WORKERS

Electrical and Electronic Trades Workers install, adapt and maintain electrical wiring systems and associated equipment, electrical machinery and other appliances, and install, build and repair electrical power transmission cables, and associated equipment.

Occupations in this sub-major group are classified into the following minor groups:

741 ELECTRICAL EQUIPMENT INSTALLERS AND REPAIRERS
742 ELECTRONICS AND TELECOMMUNICATIONS INSTALLERS AND REPAIRERS

MINOR GROUP 741 ELECTRICAL EQUIPMENT INSTALLERS AND REPAIRERS

Electrical Equipment Installers and Repairers install, adapt and maintain electrical wiring systems and associated equipment, electrical machinery and other appliances, and install, build and repair electrical power transmission cables, and associated equipment.

Occupations in this minor group are classified into the following unit groups:

7411 BUILDING AND RELATED ELECTRICIANS
7412 ELECTRICAL MECHANICS AND FITTERS
7413 ELECTRICAL LINE INSTALLERS AND REPAIRERS

UNIT GROUP 7411 BUILDING AND RELATED ELECTRICIANS

Building and Related Electricians service and repair electrical wiring systems in buildings.

Tasks include:
a) installing, maintaining and repairing electrical wiring systems and related equipment in various buildings such as business establishments, residential buildings, schools, hospitals and commercial establishments;
b) carrying out inspection, servicing and maintenance (based on field or specialisation such as electrical); and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7411)

7411-01	Electrician, Building
7411-02	Electrician, Construction
7411-03	Electrician

UNIT GROUP 7412 ELECTRICAL MECHANICS AND FITTERS

Electrical Mechanics and Fitters fit, adjust, install, service and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops or other places.

Tasks include:
a) installing, maintaining and repairing electrical equipment in various buildings such as schools, hospitals, commercial establishments, residential buildings and other structures;
b) fitting, adjusting and repairing various kinds of electrical machinery and motors, generators, switch gears and control apparatus, instruments or electrical parts of lifts and related equipment;
c) fitting, adjusting and repairing electrical parts in domestic appliances, industrial machines and other appliances, or electrical apparatus in aircraft, ships and vehicles;
d) installing, maintaining and repairing electrical equipment in theatres and radio or television studios;
e) inspecting and testing manufactured electrical products;
f) planning and carrying out preventive and scheduled maintenance of electrical installation;
g) repairing any damage and restoring electrical low voltage switch gears and conducting electrical testing at all times as well as maintaining and inspecting all wiring, switches, starter panels, control panels, electric motors and other applicable equipment; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7412)

7412-01	Chargeman, Grade J19
7412-02	Chargeman, Grade 11
7412-03	High Voltage Restriction Chargeman
7412-04	Electrical Fitter

UNIT GROUP 7413 ELECTRICAL LINE INSTALLERS AND REPAIRERS

Electrical Line Installers and Repairers install and repair power, telephone, telegraph and television lines and cables.

Tasks include:
a) installing and repairing overhead and underground electrical power and electric traction lines;
b) installing and repairing overhead and underground telephone and telegraph lines;
c) making joints in overhead and underground cables;
d) carrying out inspection, servicing and maintenance (based on field or specialisation such as electrical); and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7413)

7413-01	Electrical Power Line Worker
7413-02	Cable Line Worker
7413-03	Electric Cable Jointer
7413-04	Installer, Underground Cable

MINOR GROUP 742 ELECTRONICS AND TELECOMMUNICATIONS INSTALLERS AND REPAIRERS

Electronics and Telecommunications Installers and Repairers fit, adjust, install, service and repair electronic instruments and control systems, and maintain telecommunications equipment, data transmission equipment, cables, antennae, and repair, fit and maintain computers.

Occupations in this minor group are classified into the following unit groups:

7421 ELECTRONICS MECHANICS AND SERVICES
7422 INFORMATION AND COMMUNICATIONS TECHNOLOGY INSTALLERS AND SERVICES

UNIT GROUP 7421 ELECTRONICS MECHANICS AND SERVICES

Electronics Mechanics and Services fit, maintain, adjust and repair electronic equipment and machines such as commercial and office machines and electronic control systems.

Tasks include:
a) examining and testing machines, instruments, components and other equipment;
b) installing, adjusting, repairing or replacing electrical and electronic components; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7421)

7421-01	Fitter, Electronics
7421-02	Repairer, Electronics
7421-03	Fitter, Electronic Industrial Equipment
7421-04	Fitter, Electronic Meteorological Equipment

UNIT GROUP 7422 INFORMATION AND COMMUNICATIONS TECHNOLOGY INSTALLERS AND SERVICES

Information and Communications Technology Installers and Services install, service and maintain telecommunications equipment, data transmission equipment, cables, antennae, and repair, fit and maintain computer equipment.

Tasks include:
a) installing, servicing and repairing telecommunications equipment;
b) maintaining, troubleshooting, testing and repairing computers, data transmission equipment and computer peripherals;
c) installing and customising the computer hardware;
d) installing, maintaining, repairing and diagnosing damage in microwave, telemetry, multiplexing, satellite and other radio and electromagnetic wave communications systems;
e) providing technical advice and information, and monitoring the performance of complex telecommunications networks and equipment;
f) installing and repairing cables for computer, telephone, radio and television transmission;
g) installing, maintaining and repairing the antenna used in communications; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7422)

7422-01	Telephone Wireman
7422-02	Telephone and Telegraph Installer
7422-03	Telephone and Telegraph Mechanic
7422-04	Telephone and Telegraph Servicer

SUB-MAJOR 75 FOOD PROCESSING AND RELATED WORKERS

Food Processing and Related Workers treat and process agricultural and fisheries raw materials into food and other products.

Occupations in this sub-major group are classified into the following minor groups:

751 FOOD PROCESSING AND RELATED WORKERS

MINOR GROUP 751 FOOD PROCESSING AND RELATED WORKERS

Food Processing and Related Workers slaughter animals, process fish, treat and prepare them and related food items for human and animal consumption, make various kinds of bread, cakes and other flour products, process and preserve fruit, vegetables and related foods, taste and grade various food products and beverages, or prepare tobacco and make tobacco products.

Occupations in this minor group are classified into the following unit groups:

7511 MEAT AND FISH PROCESSING WORKERS AND RELATED FOOD PREPARERS
7512 BAKERS, PASTRY, PASTA AND CONFECTIONERY MAKERS
7513 DAIRY-PRODUCT MAKERS
7514 FRUIT, VEGETABLE AND RELATED PRESERVERS
7515 FOOD AND BEVERAGE TASTERS AND GRADERS
7516 TOBACCO PREPARERS AND TOBACCO PRODUCT MAKERS

UNIT GROUP 7511 MEAT AND FISH PROCESSING WORKERS AND RELATED FOOD PREPARERS

Meat and Fish Processing Workers and Related Food Preparers slaughter animals, clean, cut and dress meat and fish, and prepare related food items or preserve meat, fish and other food products by drying, salting or smoking.

Tasks include:
a) slaughtering animals;
b) flaying and trimming carcasses;
c) cutting and dressing meat and fish for sale or further processing;
d) preparing ingredients and making sausages and similar products using simple chopping, mixing and shaping machines;
e) curing meat, fish and other foods;
f) operating smokehouses or ovens to smoke meat, fish and other foodstuffs;
g) cooking or preparing meat, fish and related food items for sale; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7511)

7511-01	Slaughterer
7511-02	Chipper Meat
7511-03	Meat Slicer
7511-04	Sausage Maker

UNIT GROUP 7512 BAKERS, PASTRY, PASTA AND CONFECTIONERY MAKERS

Bakers, Pastry, Pasta and Confectionery Makers make various kinds of bread, buns, cakes and other flour products, as well as handmade chocolate and sugar confectionery.

Tasks include:
a) making bread, buns, cakes, biscuits, pastries, pies and other flour products;
b) making handmade confectionery from mixtures of sugar, chocolate and other ingredients with the help of tools and some machines;
c) checking the quality of raw materials to ensure that standards and specifications are met;
d) checking the cleanliness of equipment and operation of the premises before the production process to ensure compliance with occupational health and safety regulations;
e) monitoring the oven temperature and product appearance to determine baking times; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7512)

7512-01	Baker
7512-02	Pastry Baker
7512-03	Confectionary Maker
7512-04	Chocolate Maker

UNIT GROUP 7513 DAIRY-PRODUCT MAKERS

Dairy-Product Makers process butter and various types of cheese, cream or other dairy products.

Tasks include:
a) making milk powder, skim milk, cream, condensed milk, evaporated milk, ricotta cheese, butter, cheeses and other dairy products; and
b) boiling or pasteurising milk to achieve the desired butter fat content;
c) monitoring product quality before packaging by inspecting, taking samples and adjusting treatment conditions when necessary; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7513)

7513-01	Cheese Maker
7513-02	Yogurt Maker
7513-03	Butter Maker

UNIT GROUP 7514 FRUIT, VEGETABLE AND RELATED PRESERVERS

Fruit, Vegetable and Related Preservers process or preserve fruit, nuts and related foods in various ways including cooking, drying, salting, or juice or oil extraction.

Tasks include:
a) extracting juices from various fruit;
b) extracting oils from oil-bearing seeds, nuts or fruit;
c) cooking, salting or drying fruit, vegetables and related foods; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7514)

7514-01	Fruit Preserver
7514-02	Vegetable Preserver
7514-03	Fruit Juice Maker
7514-04	Syrup Maker

UNIT GROUP 7515 FOOD AND BEVERAGE TASTERS AND GRADERS

Food and Beverage Tasters and Graders inspect, taste and grade various types of agricultural products, food and beverages.

Tasks include:
a) inspecting, testing and tasting agricultural products, food and beverages;
b) determining the quality and grading into appropriate classes; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7515)

7515-01	Taster, Food
7515-02	Taster, Beverages
7515-03	Grader, Food
7515-04	Taster and Grader, Tea

UNIT GROUP 7516 TOBACCO PREPARERS AND TOBACCO PRODUCT MAKERS

Tobacco Preparers and Tobacco Product Makers prepare tobacco leaves and make various tobacco products.

Tasks include:

a) grading cured tobacco leaves by type, quality and locality where grown;
b) mixing tobacco leaves according to formula to obtain a blend of distinct flavour;
c) tending vacuum containers which moisten tobacco for further processing;
d) removing midribs and stalks from tobacco leaves and shredding tobacco;
e) making cigars, cigarettes and other tobacco products by hand or using simple machines; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7516)

7516-01	Grader, Tobacco
7516-02	Maker, Cigar
7516-03	Maker, Cigarette
7516-04	Quality Checker, Cigarette

SUB-MAJOR 76 OTHER CRAFT WORKERS

Other Craft workers treat, make and repair wooden furniture and other wood products, produce garments, shoes and related items, dive underwater, shotfire and blast, grade and test products (excluding food and beverages), and control pests.

Occupations in this sub-major group are classified into the following minor groups:

761 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS
762 GARMENT AND RELATED WORKERS
763 OTHER CRAFT AND RELATED WORKERS

MINOR GROUP 761 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS

Wood Treaters, Cabinet-Makers and Related Trades Workers make, decorate and repair wooden furniture, vehicle parts and other wooden products. They use hand tools and adjust and operate woodworking and wood processing tools as well as machinery equipment and machines.

Occupations in this minor group are classified into the following unit groups:

7611 WOOD TREATERS
7612 CABINET-MAKERS AND RELATED WORKERS
7613 WOODWORKING-MACHINE TOOL SETTERS AND OPERATORS

UNIT GROUP 7611 WOOD TREATERS

Wood Treaters season and preserve wood.

Tasks include:

a) seasoning wood by air-drying in sunlight;
b) manually treating wood with chemicals to protect it against decay or parasites;
c) grading wood or veneer according to size and quality; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7611)

7611-01	Wood Impregnator
7611-02	Wood Treater
7611-03	Wood Seasoner
7611-04	Grader, Wood

UNIT GROUP 7612 CABINET-MAKERS AND RELATED WORKERS

Cabinet-Makers and Related Workers make, decorate and repair wooden furniture, wheels or other wooden parts of vehicles, and other items such as pipes, shoes or racquets, and bats for sports using woodworking machines and specialised hand tools.

Tasks include:

a) making and repairing wooden articles such as cabinets and other furniture, using woodworking machines and hand tools;
b) making and repairing wooden vehicles, wheels or other wooden parts of vehicles;
c) decorating furniture and fixtures by inlaying wood, applying veneer and carving designs;
d) finishing surfaces of wooden articles or furniture;
e) carrying out inspection, servicing and maintenance (based on field or specialisation); and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7612)

7612-01	Maker, Cabinet
7612-02	Builder, Bullock Cart
7612-03	Maker, Furniture
7612-04	Maker, Coffin

UNIT GROUP 7613 WOODWORKING-MACHINE TOOL SETTERS AND OPERATORS

Woodworking-Machine Tool Setters and Operators set up or operate or monitor automatic or semi-automatic woodworking machines to fabricate or repair wooden parts of furniture, fixtures and other wood products.

Tasks include:

a) setting up or operating and monitoring woodworking machines to fabricate or repair wooden parts of furniture, fixtures and other wood products;
b) setting up and adjusting a variety of woodworking machines; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7613)

7613-01	Adjuster, Wood Machine
7613-02	Operator, Wood Machine
7613-03	Setter, Wood Machine
7613-04	Carving Machine Operator (Wood)

MINOR GROUP 762 GARMENT AND RELATED WORKERS

Garment and Related Workers fit, alter and repair tailored clothing; design, and make textile and fur garments, leather or fur products; repair, modify and decorate garments, gloves and other products of textile; create patterns for garments; install, repair and replace upholstery of furniture, fixtures, orthopaedic appliances and furnishings of automobiles; trim, scrape, buff and dye animal hides, pelts or skins; modify and repair footwear and leather articles.

Occupations in this minor group are classified into the following unit groups:

7621 TAILORS, DRESSMAKERS, FURRIERS AND HATTERS
7622 GARMENT AND RELATED PATTERN-MAKERS AND CUTTERS
7623 SHOEMAKERS AND RELATED WORKERS
7624 UPHOLSTERERS AND RELATED WORKERS
7625 PELT DRESSERS, TANNERS AND FELLMONGERS

UNIT GROUP 7621 TAILORS, DRESSMAKERS, FURRIERS AND HATTERS

Tailors, Dressmakers, Furriers and Hatters make suits and other clothing from cloth, leather or other materials, and repair tailored clothing or participate in the manufacture of ready-to-wear garments, or alter, repair and make hats and wigs.

Tasks include:

a) operating standard or specialised single- or multiple-needle sewing machines to make or repair garments, gloves or other products and embroider on textiles, fur or leather;
b) making overcoats, suits, skirts, shirts, blouses, lingerie, corsets and similar garments according to customer requirements;
c) participating in the manufacture of ready-to-wear clothing;
d) embroidering decorative designs on garments or materials;
e) making various kinds of hats and caps;
f) altering, restyling and repairing garments;
g) making and caring for costumes used in theatrical, television and motion picture productions;
h) making wigs according to specifications, fastening strands of hair to a cloth base;
i) assembling complete umbrellas by fixing various component parts such as collapsible metal frame, springs and umbrella fabric;
j) sewing sails, tents, awnings and similar articles; and
k) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7621)

7621-01	Tailor
7621-02	Dressmaker
7621-03	Milliner
7621-04	Maker, Songkok

UNIT GROUP 7622 GARMENT AND RELATED PATTERN-MAKERS AND CUTTERS

Garment and Related Pattern-Makers and Cutters mark and cut textile, leather and other materials in the manufacture of garments, gloves and miscellaneous products.

Tasks include:

a) drawing and cutting out patterns for making suits, dresses, shirts, blouses, gloves, hats and caps and other garments;
b) making outlines of patterns on cloth, leather or other materials to guide cutting;
c) cutting material according to pattern outline for making up garments, gloves and related items;
d) performing pattern-making, marking and cutting in the manufacture of other products such as soft furnishings, umbrellas and canvas goods; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7622)

7622-01	Pattern-Maker, Garment
7622-02	Pattern-Maker, Hat and Cap
7622-03	Maker, Garment
7622-04	Cutter, Garment

UNIT GROUP 7623 SHOEMAKERS AND RELATED WORKERS

Shoemakers and Related Workers make and repair standard or special footwear, hats and gloves, make natural or synthetic leather articles such as luggage, handbags and belts, or participate in the manufacture of related goods.

Tasks include:
a) making patterns to guide the cutting of shoe parts;
b) cutting out, preparing and fitting together shoe parts;
c) sewing shoe parts together;
d) making standard or orthopaedic footwear to individual requirements;
e) making other special types of footwear to order;
f) examining and finishing footwear;
g) repairing footwear;
h) making and repairing saddles and harnesses for animals, luggage, handbags, wallets, belts, briefcases, leather bags and other accessories;
i) making and shaping leather articles;
j) sewing and stitching leather parts by hand or machine; and
k) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7623)

7623-01	Shoemaker
7623-02	Shoemaker, Orthopedic
7623-03	Maker, Footwear Surgical
7623-04	Repairer, Footwear

UNIT GROUP 7624 UPHOLSTERERS AND RELATED WORKERS

Upholsterers and Related Workers install, repair and replace upholstery of furniture, fixtures, orthopaedic appliances, seats, panels, vinyl and other furnishings of automobiles, railway coaches, aircraft and ship. They also make and repair cushions, quilt and mattresses.

Tasks include:
a) installing, arranging and securing springs, padding and covering material to furniture frames;
b) fitting and installing covers and cushioning for seats and other accessories on vehicles such as cars, buses, railway coaches and aircraft;
c) making mattresses;
d) fitting and installing soft furnishings and interior decorations of textile, leather and similar materials;
e) repairing upholstered parts of worn furniture, mattresses and related products; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7624)

7624-01	Upholsterer, Furniture
7624-02	Upholsterer, Vehicle
7624-03	Maker, Mattress
7624-04	Maker, Cushion

UNIT GROUP 7625 PELT DRESSERS, TANNERS AND FELLMONGERS

Pelt Dressers, Tanners and Fellmongers prepare hides and skins for making leather products.

Tasks include:
a) sorting and grading pelts, hides and skins;
b) removing flesh and fat from pelts before curing;
c) removing flesh and hair from hides;
d) removing long coarse hair from pelts and trimming underlying hair to even length;
e) operating machine to split hides edgeways;
f) treating hides to convert them into leather;
g) applying dyes to fur pelts;
h) dressing and applying dyes and stains to leather;
i) stretching and smoothing dressed pelts; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7625)

7625-01	Pelt Dresser
7625-02	Tanner
7625-03	Fellmonger
7625-04	Sertu

MINOR GROUP 763 OTHER CRAFT AND RELATED WORKERS

Other Craft and Related Workers participate in activities related to underwater diving, shotfiring and blasting, grading and testing products (excluding food and beverages), and fumigate and control pests and weeds.

Occupations in this minor group are classified into the following unit groups:

7631 UNDERWATER DIVERS
7632 SHOTFIRERS AND BLASTERS
7633 PRODUCT GRADERS AND TESTERS (EXCLUDING FOODS AND BEVERAGES)
7634 FUMIGATORS AND PEST AND WEED CONTROLLERS
7639 OTHER RELATED CRAFT WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 7631 UNDERWATER DIVERS

Underwater Divers work under the surface of water with the aid of breathing apparatus to inspect, install, repair and remove equipment and structures, conduct tests or experiments, rig explosives, photograph structures or marine life, recover items or search for missing persons.

Tasks include:
a) taking safety precautions such as monitoring dive lengths and depths, and registering with authorities before diving expeditions begin;
b) inspecting and maintaining diving equipment such as helmets, masks, air tanks, diving suits, harnesses and gauges;
c) working underwater to lay and repair bridges, piers and harbour wall foundations;
d) inspecting for suspected damage and making minor repairs to ship hulls and underwater installations;
e) reporting on condition of wrecked ships;
f) removing underwater obstructions;
g) drilling holes for underwater blasting;
h) performing various underwater tasks connected with rescue or search for bodies;
i) communicating with workers on the surface, while under water, using the signal or telephone lines;
j) obtaining information about diving tasks and environmental conditions; and
k) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7631)

7631-01	Diver
7631-02	Diver, Construction
7631-03	Underwater Worker
7631-04	Underwater Diver

UNIT GROUP 7632 SHOTFIRERS AND BLASTERS

Shotfirers and Blasters assemble, position and detonate explosives in order to move or break up soil and rocks, or demolish buildings.

Tasks include:
a) assembling, positioning and detonating explosives to move, break up soil and rocks, or demolish buildings;
b) ensuring safety in the workplace, and procedures and regulations for the handling, storage and transport of explosives are complied;
c) planning and giving instructions to lay out and estimate the depth and diameter of blast holes;
d) examining the depth and cleanliness of blast holes;

e) determining the quantity and type of explosives to be used;
f) inserting explosives into blast holes;
g) ensuring that all explosives are detonated, and reporting;
h) declaring the blast area safe before and after detonation; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7632)

7632-01	Shotfirer
7632-02	Blaster
7632-03	Explosives Worker
7632-04	Detonator

UNIT GROUP 7633 PRODUCT GRADERS AND TESTERS (EXCLUDING FOODS AND BEVERAGES)

Product Graders and Testers (Excluding Foods and Beverages) inspect, test, sort, sample and weigh raw materials and goods produced or sold to ensure compliance with quality standards, identify defects, wear and deviations from specifications, and grade and classify them according to quality.

Tasks include:
a) inspecting and testing products (excluding food and beverages) at various stages of processing to determine quality and grade;
b) examining and verifying product grade;
c) conducting inspection to ensure compliance with sanitation, grade, quality and labelling standard;
d) obtaining product sample;
e) checking and recommending licensing of industry graders;
f) issuing hold orders and/or disposal orders;
g) testifying in trials and court action as required; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7633)

7633-01	Grader, Fibre
7633-02	Quality Inspector
7633-03	Wool Classer

UNIT GROUP 7634 FUMIGATORS AND PEST AND WEED CONTROLLERS

Fumigators and Pest and Weed Controllers use chemicals to remove harmful insects, small animals, wild plants and other unwanted organisms to prevent damage to crops and buildings and other structures and their surroundings and to prevent health risks.

Tasks include:
a) inspecting buildings or surroundings;
b) taking safety precautions in the use and storage of chemicals;
c) deciding on course of action to control or eliminate pests;
d) preparing estimates and bills for clients;
e) preparing and spraying chemical mixtures using various types of equipment;
f) maintaining equipment in safe, efficient working order;
g) maintaining work records of all properties inspected, pest or weed problems, chemicals used and amount of time spent at each location;
h) placing and setting traps;
i) advising clients on methods to prevent pest infestation; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 7634)

7634-01	Pest Controller
7634-02	Fumigator
7634-03	Fogging Worker, Bee
7634-04	Fogging Worker, Mosquito

UNIT GROUP 7639 OTHER RELATED CRAFT WORKERS NOT ELSEWHERE CLASSIFIED

This unit group covers Other Related Craft Workers Not Elsewhere Classified in Minor Group 763: Other Craft and Related Workers. As an example, this group include Optical Lens Finisher, Optical Lens Moulder, Camera Operator and Skilled Assistant Grade H19

Tasks include:
a) operating the camera;
b) heating, moulding and pressing optical glass to make lens blanks;
c) grinding and polishing lens blanks; and
d) performing related tasks.

Examples of the occupations classified here: **(refer to index; unit group 7639)**

7639-01	Optical Lens Finisher
7639-02	Optical Lens Moulder
7639-03	Camera Operator
7639-04	Skilled Assistant Grade H19

MAJOR GROUP 8

PLANT AND MACHINE OPERATORS AND ASSEMBLERS

PLANT AND MACHINE OPERATORS AND ASSEMBLERS

8

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

81 STATIONARY PLANT AND MACHINE OPERATORS

811 MINING AND MINERAL PROCESSING PLANT OPERATORS

8111 MINERS AND QUARRY WORKERS
8112 MINERAL AND STONE PROCESSING PLANT OPERATORS
8113 WELL DRILLERS AND BORERS AND RELATED WORKERS
8114 CEMENT, STONE AND OTHER MINERAL PRODUCTS MACHINE OPERATORS

812 METAL PROCESSING AND FINISHING PLANT OPERATORS

8121 METAL PROCESSING PLANT OPERATORS
8122 METAL FINISHING, PLATING AND COATING MACHINE OPERATORS

813 CHEMICAL AND PHOTOGRAPHIC PRODUCTS PLANT AND MACHINE OPERATORS

8131 CHEMICAL PRODUCTS PLANT AND MACHINE OPERATORS
8132 PHOTOGRAPHIC PRODUCTS MACHINE OPERATORS

814 RUBBER, PLASTIC AND PAPER PRODUCTS MACHINE OPERATORS

8141 RUBBER PRODUCTS MACHINE OPERATORS
8142 PLASTIC PRODUCTS MACHINE OPERATORS
8143 PAPER PRODUCTS MACHINE OPERATORS

815 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS

8151 FIBRE PREPARING, SPINNING AND WINDING MACHINE OPERATORS
8152 WEAVING AND KNITTING MACHINE OPERATORS
8153 SEWING MACHINE OPERATORS
8154 BLEACHING, DYEING AND FABRIC CLEANING MACHINE OPERATORS
8155 FUR AND LEATHER PREPARING MACHINE OPERATORS
8156 SHOEMAKING AND RELATED MACHINE OPERATORS
8157 LAUNDRY MACHINE OPERATORS
8159 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS NOT ELESEWHERE CLASSIFIED

816 FOOD AND RELATED PRODUCTS MACHINE OPERATORS

8161 FOOD AND RELATED PRODUCTS MACHINE OPERATORS

817 WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS

8171 PULP AND PAPERMAKING PLANT OPERATORS
8172 WOOD PROCESSING PLANT OPERATORS
8173 WOOD PRODUCTS MACHINE OPERATORS

818 OTHER STATIONARY PLANT AND MACHINE OPERATORS

8181 GLASS AND CERAMICS PLANT OPERATORS
8182 STEAM ENGINE AND BOILER OPERATORS
8183 PACKING, BOTTLING AND LABELLING MACHINE OPERATORS
8189 STATIONARY PLANT AND MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED

82 ASSEMBLERS

821 ASSEMBLERS

8211 MECHANICAL MACHINERY ASSEMBLERS
8212 ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS
8213 LEATHER, METAL, RUBBER AND PLASTIC PRODUCTS ASSEMBLERS
8219 ASSEMBLERS NOT ELSEWHERE CLASSIFIED

822 MACHINE-TOOL SETTER-OPERATORS

8221 MACHINE-TOOL SETTER-OPERATORS

83 DRIVERS AND MOBILE PLANT OPERATORS

831 LOCOMOTIVE ENGINE DRIVERS AND RELATED WORKERS

8311 LOCOMOTIVE ENGINE DRIVERS
8312 RAILWAY BRAKE, SIGNAL AND SWITCH OPERATORS

832 CAR, VAN AND MOTORCYCLE DRIVERS

8321 MOTORCYCLE RIDERS (DRIVERS)
8322 CAR, TAXI AND VAN DRIVERS

833 HEAVY TRUCK AND BUS DRIVERS

8331 BUS AND TRAM DRIVERS
8332 HEAVY TRUCK AND LORRY DRIVERS

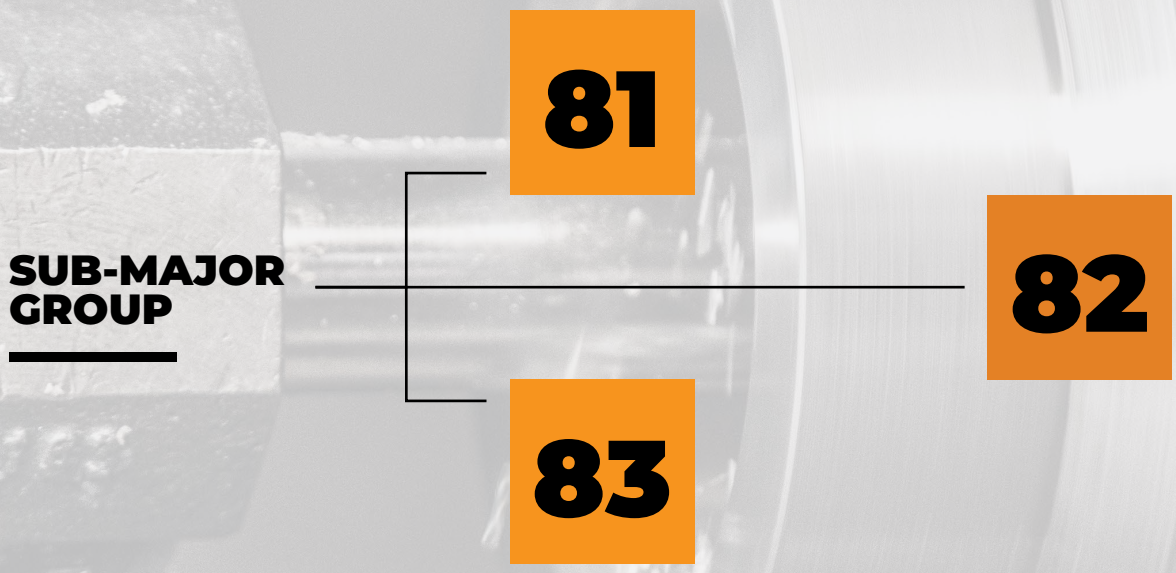
834 MOBILE PLANT OPERATORS

8341 MOBILE FARM AND FORESTRY PLANT OPERATORS
8342 EARTH-MOVING AND RELATED PLANT OPERATORS
8343 CRANE, HOIST AND RELATED PLANT OPERATORS
8344 LIFTING TRUCK OPERATORS

835 SHIPS DECK CREWS AND RELATED WORKERS

8351 SHIPS DECK CREWS AND RELATED WORKERS

PLANT AND MACHINE OPERATORS AND ASSEMBLERS



81 STATIONARY PLANT AND MACHINE OPERATORS
82 ASSEMBLERS
83 DRIVERS AND MOBILE PLANT OPERATORS

PLANT AND MACHINE OPERATORS AND ASSEMBLERS

Description

Operate and monitor industrial and agricultural machinery and equipment, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble product component parts according to strict specifications and procedures.

The work mainly calls for experience with and understanding of industrial and agricultural machinery and equipment as well as an ability to cope with machine-paced operations and to adapt to technological innovations.

Skills level

Most occupations in this major group require skills at the second level.

Occupations in this major group are classified into the following sub-major groups:

81 STATIONARY PLANT AND MACHINE OPERATORS
82 ASSEMBLERS
83 DRIVERS AND MOBILE PLANT OPERATORS

SUB-MAJOR 81 STATIONARY PLANT AND MACHINE OPERATORS

Stationary Plant and Machine Operators operate and monitor stationary industrial plants, machinery and equipment whether on site or with a remote control or for which mobility is not an integral part of operations.

Occupations in this sub-major group are classified into the following minor groups:

811 MINING AND MINERAL PROCESSING PLANT OPERATORS
812 METAL PROCESSING AND FINISHING PLANT OPERATORS
813 CHEMICAL AND PHOTOGRAPHIC PRODUCTS PLANT AND MACHINE OPERATORS
814 RUBBER, PLASTIC AND PAPER PRODUCTS MACHINE OPERATORS
815 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS
816 FOOD AND RELATED PRODUCTS MACHINE OPERATORS
817 WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS
818 OTHER STATIONARY PLANT AND MACHINE OPERATORS

MINOR GROUP 811 MINING AND MINERAL PROCESSING PLANT OPERATORS

Mining and Mineral Processing Plant Operators operate and monitor plants and machinery to extract rocks and minerals from the earth, process minerals and stones, drill wells and bores, and manufacture and finish cement and stone products.

Occupations in this minor group are classified into the following unit groups:

8111 MINERS AND QUARRY WORKERS
8112 MINERAL AND STONE PROCESSING PLANT OPERATORS
8113 WELL DRILLERS AND BORERS AND RELATED WORKERS
8114 CEMENT, STONE AND OTHER MINERAL PRODUCTS MACHINE OPERATOR

UNIT GROUP 8111 MINERS AND QUARRY WORKERS

Miners and Quarry Workers operate machinery, plants sand hand tools, and extract solid minerals from underground and open cast mines or quarries.

Tasks include:
a) extracting coal, ore and other solid minerals from underground or open cast mines;
b) extracting granite, limestone, slate, flint or other kinds of rocks from quarries;
c) setting up and operating machines which perforate channels or drill blasting holes into the open face of mines or quarries;

d) cutting, fitting and installing wood or steel props;
e) assembling poles and arches to support walls and roofs of underground work;
f) collecting samples of coal or ore for laboratory analysis;
g) extracting limestone, clay, gravel or sand from open cast mines;
h) ensuring observance of workplace safety procedures and regulations;
i) operating and monitoring mining machines; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8111)

8111-01	Miner
8111-02	Quarrier
8111-03	Machine Operator, Drilling
8111-04	Machine Operator, Mine Drilling

UNIT GROUP 8112 MINERAL AND STONE PROCESSING PLANT OPERATORS

Mineral and Stone Processing Plant Operators operate and monitor machinery and equipment for processing mineral ores and stones.

Tasks include:
a) operating and monitoring equipment which crushes and breaks lumps of minerals and stones to required size;
b) operating and monitoring washing, separating, leaching, precipitating, filtering, extracting and combining equipment to wash mineral ore in order to remove waste material;
c) combining mineral ores with solvents to facilitate further processing;
d) separating metal or mineral concentrates from ore or alluvial deposits by thickening, floatation, gravity separation, filtration, or magnetic or electrostatic separation; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8112)

8112-01	Machine Operator, Stone Processing
8112-02	Machine Operator, Stone Splitting
8112-03	Machine Operator, Stone Crushing
8112-04	Machine Operator, Stone Milling

UNIT GROUP 8113 WELL DRILLERS AND BORERS AND RELATED WORKERS

Well Drillers, Borers and Related Workers position, assemble and operate drilling machinery and related equipment to dig wells, extract ores, liquids or gases, or for various other purposes.

Tasks include:
a) preparing and operating derrick pipe-handling devices and slush pumps;
b) operating rotary or percussion-drilling machinery and equipment to drill oil or gas wells;
c) cleaning and servicing oil or gas wells and replacing pumping rods, casings and tubings; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8113)

8113-01	Operator, Drilling Equipment
8113-02	Operator, Cable Drilling Equipment
8113-03	Operator, Well Drilling Equipment
8113-04	Operator, Oil and Gas Well Derrick

UNIT GROUP 8114 CEMENT, STONE AND OTHER MINERAL PRODUCTS MACHINE OPERATORS

Cement, Stone and Other Mineral Products Machine Operators operate and monitor extrusion, moulding, mixing, grinding and cutter machines which manufacture and finish various precast concrete and stone products, or which make cast stone for building purposes.

Tasks include:

a) operating and monitoring extrusion, moulding, grinding and cutter machines which manufacture and finish various precast concrete and stone products such as flagstones, fencing posts, moulded pipe sections and trench liners, walling and partition slabs, building components, cable conduits, fume and dust extraction conduits;
b) operating and monitoring machines which mix sand, gravel, cement and water to make concrete; and
c) operating heavy plant and machinery and mixing sand, gravel, cement, water and other materials to make concrete;
d) cutting, grinding, drilling, sandblasting and polishing concrete and stone block products; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8114)

8114-01	Machine Operator, Concrete Mixing
8114-02	Machine Operator, Cast Concrete Product
8114-03	Machine Operator, Cement Product
8114-04	Machine Operator, Asbestos

MINOR GROUP 812 METAL PROCESSING AND FINISHING PLANT OPERATORS

Metal Processing and Finishing Plant Operators operate and monitor ore smelting, metal converting and refining furnaces, metal rolling mills, metal heat treating or metal extrusion plants.

Occupations in this minor group are classified into the following unit groups:

8121 METAL PROCESSING PLANT OPERATORS
8122 METAL FINISHING, PLATING AND COATING MACHINE OPERATORS

UNIT GROUP 8121 METAL PROCESSING PLANT OPERATORS

Metal Processing Plant Operators operate and monitor ore smelting, metal converting and refining furnaces, metal rolling mills, metal heat treating or metal extrusion plants.

Tasks include:

a) operating and monitoring rolling mills to form hot or cold steel into shapes for further processing, or into the final shape;
b) operating and monitoring rolling mills to form hot or cold non-ferrous metal into specific shapes, such as plates, pieces or sheets;
c) pouring molten metal into moulds and operating and monitoring casting machines;
d) observing gauges, meters, computer printouts, video monitors and products to ensure proper operation;
e) verifying specified processing conditions; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8121)

8121-01	Furnace Operator
8121-02	Furnace Operator, Steel Refining
8121-03	Furnace Operator, Converting Steel
8121-04	Hot-Roller Operator, Steel

UNIT GROUP 8122 METAL FINISHING, PLATING AND COATING MACHINE OPERATORS

Metal Finishing, Plating and Coating Machine Operators operate and monitor equipment which finishes, plates and coats metal articles or parts in order to give them improved resistance to corrosion and abrasion, for decorative purposes, or to impart electrical or magnetic properties.

Tasks include:

a) operating and monitoring equipment which cleans metal articles in preparation for electroplating, galvanising, enamelling or similar processes;

b) operating and monitoring electroplating equipment;
c) operating and monitoring hot-dip equipment used to coat iron and steel products;
d) operating and monitoring machines which automatically coat wire with non-ferrous metal;
e) operating and monitoring equipment used to spray molten metal or other substances on metal products to provide a protective or decorative coating or to build up worn or damaged surfaces;
f) operating and monitoring equipment to oxidise metal surfaces to decorative finishes by chemical process;
g) operating sandblasting equipment to clean and smoothen surfaces of metal parts;
h) operating machines to semi-finish the surface of cast metal articles;
i) operating and monitoring equipment used to impart a rust-resistant finishing to metal articles by treating them with chemicals and heating them; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8122)

8122-01	Machine Operator, Metal Electroplating
8122-02	Electroplater
8122-03	Machine Operator, Metal Dipping
8122-04	Hot-Dip Plater

MINOR GROUP 813 CHEMICAL AND PHOTOGRAPHIC PRODUCTS PLANT AND MACHINE OPERATORS

Chemical and Photographic Products Plant and Machine Operators operate and monitor machines which process a variety of chemicals and other ingredients to produce pharmaceuticals, toiletries, explosives and photographic or other chemical products.

Occupations in this minor group are classified into the following unit groups:

8131 CHEMICAL PRODUCTS PLANT AND MACHINE OPERATORS
8132 PHOTOGRAPHIC PRODUCTS MACHINE OPERATORS

UNIT GROUP 8131 CHEMICAL PRODUCTS PLANT AND MACHINE OPERATORS

Chemical Products Plant and Machine Operators monitor and operate units and machinery to blend, mix, process and package a wide range of chemical products.

Tasks include:
a) setting up, starting, controlling, adjusting and stopping machines and plant;
b) monitoring reaction processes and transferring products in compliance with safety procedures;
c) monitoring meters, gauges and electronic instrumentation for one or more chemicals;
d) monitoring formulation units, such as mixers, kettles, blenders, dryers, tabletting, encapsulation, granulation and coating machines;
e) measuring, weighing and loading chemical ingredients following formulation cards;
f) taking samples and performing routine chemical and physical tests of products and recording production data; and
g) cleaning and performing minor repairs to machines and plant.

Examples of the occupations classified here: (refer to index; unit group 8131)

8131-01	Machine Operator, Paint-Mixing
8131-02	Machine Operator, Chemical Process Mixing and Blending
8131-03	Machine Operator, Glue-Mixing
8131-04	Machine Operator, Chemical Process Pulverising

UNIT GROUP 8132 PHOTOGRAPHIC PRODUCTS MACHINE OPERATORS

Photographic Products Machine Operators operate and monitor equipment which makes photographic film and paper, and which processes exposed photographic film and makes prints.

Tasks include:

a) operating and monitoring equipment which makes photographic film and paper;
b) operating, monitoring and testing photographic processing and printing equipment, and maintaining operational standards;
c) preparing exposed film for different processing batches in dark rooms and dark chambers;
d) inspecting images, films, prints and adjusting settings on print-making equipment to produce required colour, brightness, contrast, number, size and type of prints;
e) adjusting settings and running automatic processing film equipment;
f) operating equipment to transfer film to video tape or other electronic media;
g) operating automatic equipment (in retail shops) to develop colour negatives, prints and slides; and
h) performing photographic processing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8132)

8132-01	General Assistant, Photographic
8132-02	Machine Operator, Photographic Printing
8132-03	Machine Operator, Photographic Developing
8132-04	Machine Operator, Scanning and Filming

MINOR GROUP 814 RUBBER, PLASTIC AND PAPER PRODUCTS MACHINE OPERATORS

Rubber, Plastic and Paper Products Machine Operators operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber and plastics, or produce various types of products from paper, paperboard, cardboard and similar materials.

Occupations in this minor group are classified into the following unit groups:

8141 RUBBER PRODUCTS MACHINE OPERATORS
8142 PLASTIC PRODUCTS MACHINE OPERATORS
8143 PAPER PRODUCTS MACHINE OPERATORS

UNIT GROUP 8141 RUBBER PRODUCTS MACHINE OPERATORS

Rubber Products Machine Operators operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber such as moulded footwear, domestic articles, insulating materials, industrial accessories, or tyres for bicycles, automobiles, tractors, aircraft and other vehicles.

Tasks include:

a) operating and monitoring machines which knead, mix and blend rubber and rubber compounds for further processing;
b) operating and monitoring machines which produce sheets of rubber or rubberised fabric by a rolling process;
c) operating and monitoring machines which extrude compounded rubber or shape vulcanised rubber by moulding;
d) operating and monitoring machines which build up tyres according to the form, vulcanise tyres and mould or rebuild used tyres;
e) operating and monitoring machines which manufacture rubber products such as hoses, air-bags, rubber foam for cushions and mattresses, rubber stamps, etc; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8141)

8141-01	Machine Operator, Milling Rubber
8141-02	Machine Operator, Extruding Rubber
8141-03	Press-Operator, Moulding Rubber
8141-04	Machine Operator, Calendar Rubber

UNIT GROUP 8142 PLASTIC PRODUCTS MACHINE OPERATORS

Plastic Products Machine Operators operate and monitor machines which knead and blend compounds to obtain plastic materials and which make various plastic components and articles.

Tasks include:

a) operating and monitoring machines which knead, mix and blend compounds to obtain plastic materials;
b) operating and monitoring machines which shape plastic materials by moulding, extrusion, cutting and other means;
c) operating and monitoring machines which laminate plastics and plastic-impregnated materials;
d) operating and monitoring machines which compress plastic powder into pellets;
e) operating and monitoring machines which emboss designs on plastic sheets;
f) operating and monitoring machines which make plastic products such as domestic articles, moulded footwear, toys and industrial accessories;
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8142)

8142-01	Machine Operator, Plastic Mixing
8142-02	Press-Machine Operator, Plastic Laminating
8142-03	Machine Operator, Plastic Extruding
8142-04	Machine Operator, Plastic Compression Moulding

UNIT GROUP 8143 PAPER PRODUCTS MACHINE OPERATORS

Paper Products Machine Operators operate and monitor machines which produce boxes, envelopes, bags and other products from paper, paperboard, cardboard, cellophane and similar materials.

Tasks include:

a) operating machines which seal paper to cardboard, cut it to the required length or cut and crease cardboard or paperboard to form box blanks;
b) operating pressing machines which form drinking cups or other containers from paper, paperboard or cardboard;
c) operating machines which cut, fold and seal paper to make envelopes and paper bags, or which form bags from other materials;
d) operating machines which make joss paper and other ceremonial paper products used in praying and other religious activities; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8143)

8143-01	Machine Operator, Carton and Paper Box Production
8143-02	Machine Operator, Paper Products
8143-03	Machine Operator, Cellophane Bag Production
8143-04	Machine Operator, Envelope Production

MINOR GROUP 815 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS

Textile, Fur and Leather Products Machine Operators operate and monitor various types of machines which prepare, process and treat fibres, yarn, thread, leather or fur, produce, modify and repair footwear and garments, and manufacture or dry-clean textiles or fur and leather articles.

Occupations in this minor group are classified into the following unit groups:

8151 FIBRE PREPARING, SPINNING AND WINDING MACHINE OPERATORS
8152 WEAVING AND KNITTING MACHINE OPERATORS
8153 SEWING MACHINE OPERATORS
8154 BLEACHING, DYEING AND FABRIC CLEANING MACHINE OPERATORS
8155 FUR AND LEATHER PREPARING MACHINE OPERATORS
8156 SHOEMAKING AND RELATED MACHINE OPERATORS
8157 LAUNDRY MACHINE OPERATORS
8159 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS NOT ELESEWHERE CLASSIFIED

UNIT GROUP 8151 FIBRE PREPARING, SPINNING AND WINDING MACHINE OPERATORS

Fibre Preparing, Spinning and Winding Machine Operators operate and monitor machines which prepare fibres, and spin, twist and wind yarn and thread.

Tasks include:

a) operating machines which combine textile fibres into uniform blends;
b) operating machines which clean and fluff textile fibres, transform them into sliver, comb them into sliver for first drawing, combine slivers into sliver lap or sliver laps into ribbon lap, combine several slivers into one attenuated strand of regular quality and weight;
c) operating machines which transform sliver into roving;
d) operating machines which spin thread and yarn from roving, wind two or more threads onto a bobbin, twist two or more strands of yarn or thread into a single heavier and stronger strand, or wind yarn or thread from one package to another; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8151)

8151-01	Machine Operator, Thread and Yarn Twisting
8151-02	Thread and Yarn Winder
8151-03	Thread and Yarn Spinner
8151-04	Silk Reeler

UNIT GROUP 8152 WEAVING AND KNITTING MACHINE OPERATORS

Weaving and Knitting Machine Operators operate and monitor weaving and knitting machines and related equipment used to produce materials and fabrics.

Tasks include:

a) operating machines used to weave or knit plain or printed cloth, tapestry, lace, carpets, garments, net, hosiery or other fabrics or articles; and
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8152)

8152-01	Machine Operator, Warping Beam (Textile Weaving)
8152-02	Machine Operator, Weaving
8152-03	Machine Operator, Carpet Weaving
8152-04	Machine Operator, Knitting

UNIT GROUP 8153 SEWING MACHINE OPERATORS

Sewing Machine Operators operate and monitor sewing machines to make, repair and renovate textile, fur, synthetic or leather garments, or embroider ornamental designs on garments or other materials.

Tasks include:

a) operating and monitoring standard or specialised single- or multiple-needle sewing machines to make or repair garments, gloves and miscellaneous products of textile or leather, and embroidering ornamental designs on textile or other materials;
b) performing equipment maintenance tasks such as replacing needles;
c) attaching buttons, hooks, zips, fasteners or other accessories to fabric; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8153)

8153-01	Sewing Machine Operator,
8153-02	Sewing Machine Operator, Leather
8153-03	Sewing Machine Operator, Crochet
8153-04	Sewing Machine Operator, Embroidery

UNIT GROUP 8154 BLEACHING, DYEING AND FABRIC CLEANING MACHINE OPERATORS

Bleaching, Dyeing and Fabric Cleaning Machine Operators operate and monitor machines which bleach, dye, wash and otherwise treat fibres, yarn or cloth, or dry clean textile and leather articles.

Tasks include:
a) operating and monitoring machines which treat textile products to lighten their colour or to give them a specific colour;
b) operating and monitoring machines which wash or dry-clean textile or leather products to remove dirt, impurities, excess chemicals or natural gum;
c) operating and monitoring machines which shrink cloth or strengthen the weave by interlocking the fibres;
d) operating and monitoring machines which impregnate textiles with chemicals to render them waterproof;
e) operating and monitoring machines which treat silk to give it body and weight;
f) operating and monitoring machines which press, stretch or impart lustre, or other type of finishes on textiles; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8154)

8154-01	Machine Operator, Textile Bleaching
8154-02	Machine Operator, Dyeing
8154-03	Machine Operator, Starch
8154-04	Machine Operator, Washing

UNIT GROUP 8155 FUR AND LEATHER PREPARING MACHINE OPERATORS

Fur and Leather Preparing Machine Operators operate and monitor various machines which prepare fur and leather.

Tasks include:
a) operating and monitoring machines which remove flesh, fat and hair from pelts before curing;
b) operating and monitoring machines which treat hides and skins in solutions and apply a finishing product to convert them into leather;
c) operating and monitoring machines which apply dyes and stains to leather; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8155)

8155-01	Machine Operator, Hide Processing
8155-02	Machine Operator, Hide Fleshing
8155-03	Machine Operator, Hide Dehairing
8155-04	Machine Operator, Tanning

UNIT GROUP 8156 SHOEMAKING AND RELATED MACHINE OPERATORS

Shoemaking and Related Machine Operators operate and monitor machines which produce and repair standard or special footwear, handbags and other accessories, mainly made of leather.

Tasks include:
a) operating and monitoring machines which mark patterns and cut shoe parts;
b) operating and monitoring machines which sew shoe parts together, or edge, polish, or apply ornaments and perform finishing tasks;
c) operating and monitoring machines which produce luggage, handbags, belts and other accessories, as well as other items such as collars or harnesses; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8156)

8156-01	Machine Operator, Footwear Production
8156-02	Machine Operator, Orthopaedic Footwear Production
8156-03	Machine Operator, Sports Footwear Production
8156-04	Machine Operator, Safety Footwear Production

UNIT GROUP 8157 LAUNDRY MACHINE OPERATORS

Laundry Machine Operators operate laundry, dry cleaning, presser and fabric treatment machines in laundries and dry cleaning establishments.

Tasks include:
a) sorting articles for cleaning according to type, colour, fabric and cleaning treatment required;
b) placing sorted articles into containers and onto conveyor belts to be brought to the repair and cleaning areas;
c) checking and removing stains from garments, and replacing buttons and making minor repairs;
d) loading and unloading washing machines, driers and extractors;
e) adding cleaning agents and starches to laundry articles;
f) monitoring laundry articles and guiding them through cleaning and pressing machines;
g) stopping and starting machines to untangle, straighten and remove laundry articles;
h) placing laundry articles on shelves and hanging laundry articles for delivery and collection; and
i) packing laundry articles and preparing orders for delivery.

Examples of the occupations classified here: (refer to index; unit group 8157)

8157-01	Machine Operator, Textile Fibre Dyeing
8157-02	Machine Operator, Laundering
8157-03	Machine Operator, Laundry Presser

UNIT GROUP 8159 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS NOT ELESEWHERE CLASSIFIED

This unit group includes Textile, Fur and Leather Products Machine Operators Not Elsewhere Classified Minor Group 815: Textile Products Machine operators. As an example this group include Machine Operator, Garment Cutting, Machine Cutter, Leather Garment, Machine Operator, Textile Cutting and Machine, Hat Making

Tasks include:
a) operating and monitoring machines which make hats, mattresses or miscellaneous articles such as braids, lace or other trimmings; and
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8159)

8159-01	Machine Operator, Garment Cutting
8159-02	Machine Cutter, Leather Garment
8159-03	Machine Operator, Textile Cutting
8159-04	Machine Operator, Hat Making

MINOR GROUP 816 FOOD AND RELATED PRODUCTS MACHINE OPERATORS

Food and Related Products Machine Operators operate and monitor machines which slaughter animals, process meat, process foodstuffs and related products, and process tobacco.

Occupations in this minor group are classified into the following unit groups:

8161 FOOD AND RELATED PRODUCTS MACHINE OPERATORS

UNIT GROUP 8161 FOOD AND RELATED PRODUCTS MACHINE OPERATORS

Food and Related Products Machine Operators operate and monitor machines which slaughter animals, process meat, process foodstuffs and related products, and process tobacco.

Tasks include:
a) operating machines used to slaughter animals and to cut animal carcasses or fish into standard pieces;
b) operating machines which pasteurise, homogenise and heat-treat milk and cream;
c) operating machinery used for the production of flour, food and animal feed, and for processing rice;
d) operating machines which mix and blend flour with other ingredients to prepare dough for the production of bread, pastries, pasta, noodles and related products;

e) operating machines which extract juice from fruit and vegetables by heating or processing;
f) operating machines which crush sugar cane or extract juice from sugar beet;
g) operating machines which process barley and other grains used in making distilled and malt liquors, and controlling the fermentation process;
h) operating machines which process tobacco in preparation for manufacturing cigarettes, cigar and other tobacco products; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8161)

8161-01	Machine Operator, Meat Processing
8161-02	Machine Operator, Fish Processing
8161-03	Machine Operator, Food Processing
8161-04	Machine Operator, Slaughtering

MINOR GROUP 817 WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS

Wood Processing and Papermaking Plant Operators operate and monitor machinery and equipment which saw, cut and grind wood in preparation for further use, process wood and its materials into pulp, and make paper from pulp.

Occupations in this minor group are classified into the following unit groups:

8171 PULP AND PAPERMAKING PLANT OPERATORS
8172 WOOD PROCESSING PLANT OPERATORS
8173 WOOD PRODUCTS MACHINE OPERATORS

UNIT GROUP 8171 PULP AND PAPERMAKING PLANT OPERATORS

Pulp and Papermaking Plant Operators operate and monitor machinery and equipment which process materials such as wood, old paper, esparto, straw, scrap-pulp and paper into stock for use in papermaking.

Tasks include:
a) operating and monitoring chipper and grinding machines which make pulp from logs;
b) operating and monitoring digesters which produce pulp from materials such as wood, old paper, esparto, straw or scrap-pulp and scrap paper;
c) operating and monitoring machines which bleach wood pulp, old paper, esparto, straw or scrap-pulp and scrap paper;
d) operating and monitoring machines which mix, beat and hydrate pulp and other ingredients to prepare materials to make paper;
e) cutting old paper, wastepaper and straws into small pieces with a cutting machine to make paper pulp;
f) operating valves to charge raw materials into digester;
g) operating and monitoring papermaker machines and equipment in which wet pulp is formed into paper or in which paper is dried, lubricated, wound, slit, and rewound;
h) operating and monitoring lubrication machines used to impart gloss and finishes on paper surface;
i) operating and monitoring machinery and equipment used to glaze or impregnate paper with coating mixture; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8171)

8171-01	Operator, Pulp Digester
8171-02	Machine Operator, Chipping
8171-03	Operator, Pulp Beater
8171-04	Machine Operator, Wood Grinding

UNIT GROUP 8172 WOOD PROCESSING PLANT OPERATORS

Wood Processing Plant Operators operate and monitor machinery and equipment for sawing wood, cutting veneer and making plywood, particle board and chipboard, and otherwise prepare wood for further use.

Tasks include:
a) operating and monitoring log in-feed and conveyor systems;
b) operating and monitoring head saws, resaws and multi-blade saws to saw logs, slabs or wings and remove rough edges from sawn timber;
c) operating and monitoring machines which cut veneer;
d) operating and monitoring plywood core-laying machines and hot-plate plywood presses;
e) operating steam-heated kilns to desiccate wood;
f) operating equipment which desiccates wood;
g) operating dryer to dry freshly shaped veneer sheets;
h) operating machines to clip continuous veneer sheets to specified width; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8172)

8172-01	Operator, Sawmill
8172-02	Saw Operator
8172-03	Saw Operator, Wet Timber
8172-04	Saw Operator, Wood

UNIT GROUP 8173 WOOD PRODUCTS MACHINE OPERATORS

Wood Products Machine Operators operate and monitor woodworking machines which perform repetitive work such as sawing, boring, shaping, planning, turning or carving wood to produce wood products.

Tasks include:
a) setting up and operating one or more previously set up machines for sawing, shaping, boring, planning, turning or carving wood; and
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8173)

8173-01	Lathe Operator, Woodworking
8173-02	Machinist, Wood
8173-03	Lathe-Operator, Wood (Machine)
8173-04	Machine Operator, Wood Carving

MINOR GROUP 818 OTHER STATIONARY PLANT AND MACHINE OPERATORS

Other Stationary Plant and Machine Operators operate and monitor machinery and plants for processing metal and ceramics, steam boilers, packing, manufacture of silicone chips and related machines.

Occupations in this minor group are classified into the following unit groups:

8181 GLASS AND CERAMICS PLANT OPERATORS
8182 STEAM ENGINE AND BOILER OPERATORS
8183 PACKING, BOTTLING AND LABELLING MACHINE OPERATORS
8189 STATIONARY PLANT AND MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 8181 GLASS AND CERAMICS PLANT OPERATORS

Glass and Ceramics Plant Operators operate and monitor kilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks. They operate machines to anneal, harden or decorate glass and ceramics.

Tasks include:
a) operating and monitoring glass-making furnaces to make glass by melting and fusing pre-mixed ingredients;
b) tending hot- or cold-end spray equipment used to coat glassware with surface hardener;
c) operating and maintaining machines that press or blow molten glass in moulds to form or shape containers, such as bottles, jars and drinking glasses;

d) operating hand presses to mould glass into the required shape;
e) operating drawing kilns to process molten glass into a continuous sheet of flat glass;
f) operating and monitoring floating-glass production plant;
g) operating and maintaining finishing machines to grind, drill, sand, bevel, decorate, wash or polish glass or glass products;
h) setting up and operating press machines to mould ceramic articles from moist clay;
i) operating machines to mix clay with water to knead it into a suitable plastic condition or semi-liquid form for making ceramic products;
j) operating and monitoring kilns which bake pottery, porcelain ware and bake bricks and tiles;
k) operating and monitoring machines for making glaze or abrasives;
l) operating and monitoring machines which extrude molten glass to form fibreglass filaments; and
m) observing finished products to identify splits, cracks, breaks, colour and other imperfections.

Examples of the occupations classified here: (refer to index; unit group 8181)

8181-01	Machine Operator, Clay Mixing
8181-02	Machine Operator, Glass Mixing
8181-03	Furnace Operator, Glass Production
8181-04	Operator, Retort

UNIT GROUP 8182 STEAM ENGINE AND BOILER OPERATORS

Steam Engine and Boiler Operators maintain and operate various types of steam engines, boilers, turbines and auxiliary equipment to provide power and other utility services for commercial, industrial and institutional buildings, at work sites and aboard ships.

Tugas merangkumi:
a) operating and monitoring coal or oil-fired steam engines or boilers;
b) monitoring and checking the performance of equipment to ensure efficient operation and that boiler water, chemicals and fuel are maintained at required levels;
c) testing the boiler water quality and taking necessary corrective action such as adding chemicals to prevent corrosion and harmful deposits;
d) managing the operation of static plant / machinery of the department either steam boiler or internal combustion engine, scheduled / periodic maintenance of the boiler, boiler safety procedures as well as the support system connected to the boiler; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8182)

8182-01	Plant Operator Grade H11
8182-02	Boilerman
8182-03	Boiler Operator, Ship
8182-04	Fire Operator, Ship

UNIT GROUP 8183 PACKING, BOTTLING AND LABELLING MACHINE OPERATORS

Packing, Bottling and Labelling Machine Operators operate machines which pack, label and, if needed, add revenue stamps to products, packages and containers, or inspect finished products or parts in compliance with manufacturer's standards, finish and appearance.

Tasks include:
a) inspecting finished products or parts in compliance with manufacturer's finish, physical appearance and standards;
b) operating machines which wrap and pack various products, including liquids, for storage or shipment;
c) operating machines which, by gluing or other methods, label products, packages and various containers, or add revenue stamps; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8183)

8183-01	Operator, Carton
8183-02	Operator, Packing
8183-03	Packer
8183-04	Machine Operator, Labelling

UNIT GROUP 8189 STATIONARY PLANT AND MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED

This unit group includes Stationary Plant and Machine Operators Not Elsewhere Classified in Minor Group 818: Other Stationary Plant and Machine Operators. As an example, this group include Machine Operator, Production Operator, Equipment and Machine Operator and Heavy Machinery Operator

Tasks include:

a) inspecting finished products or parts in compliance with manufacturer's finish, physical appearance and standards;
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8189)

8189-01	Machine Operator
8189-02	Production Operator
8189-03	Equipment and Machine Operator
8189-04	Heavy Machinery Operator

SUB-MAJOR 82 ASSEMBLERS

Assemblers assemble prefabricated parts or components to form products and equipment according to strict specifications and procedures.

Occupations in this sub-major group are classified into the following minor groups:

821 ASSEMBLERS
822 MACHINE-TOOL SETTER-OPERATORS

MINOR GROUP 821 ASSEMBLERS

Assemblers assemble prefabricated parts or components to form products and equipment according to strict specifications and procedures.

Occupations in this minor group are classified into the following unit groups:

8211 MECHANICAL MACHINERY ASSEMBLERS
8212 ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS
8213 LEATHER, METAL, RUBBER AND PLASTIC PRODUCTS ASSEMBLERS
8219 ASSEMBLERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 8211 MECHANICAL MACHINERY ASSEMBLERS

Mechanical Machinery Assemblers assemble the components or parts of mechanical machinery such as the engine, motor vehicles, turbines and aircraft according to specifications.

Tasks include:

a) assembling the components or parts of mechanical machinery, engines and vehicles according to specifications; and
b) inspecting and testing completed components and assemblies; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8211)

8211-01	Assembler
8211-02	Foreman
8211-03	Assembler, Marine Engine
8211-04	Assembler, Automobile

UNIT GROUP 8212 ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS

Electrical and Electronic Equipment Assemblers assemble the components or parts of electrical and electronic equipment according to specifications.

Tasks include:

a) assembling the components or parts of electrical and electronic equipment according to specifications; and
b) inspecting and testing completed components and assemblies; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8212)

8212-01	Assembler, Electronic Equipment
8212-02	Assembler, Electronic Equipment
8212-03	Assembler, Semi-Conductor
8212-04	Assembler, Battery

UNIT GROUP 8213 LEATHER, METAL, RUBBER AND PLASTIC PRODUCTS ASSEMBLERS

Leather, Metal, Rubber and Plastic Products Assemblers perform specialised tasks in assembling the leather, metal, rubber or plastic components or parts of various types of products such as toys, sports equipment and other products according to specifications.

Tasks include:

a) assembling the leather, metal, rubber or plastic components or parts of various types of products according to specifications; and
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8213)

8213-01	Assembler, Leather Products
8213-02	Assembler, Metal Products
8213-03	Assembler, Rubber Products
8213-04	Assembler, Plastic Products

UNIT GROUP 8219 ASSEMBLERS NOT ELSEWHERE CLASSIFIED

This unit group includes Assemblers Not Elsewhere Classified in Minor Group 821: Assemblers. As an example, this group include Assembler, Wood Products, Assembler, Composite Products, Assembler, Textile Products and Assembler, Bicycle

Tasks include:

a) assembling components or parts according to specifications;
b) inspecting finished products or parts in compliance with manufacturer's finish, physical appearance and standards
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8219)

8219-01	Assembler, Wood Products
8219-02	Assembler, Composite Products
8219-03	Assembler, Textile Products
8219-04	Assembler, Bicycle

MINOR GROUP 822 MACHINE-TOOL SETTER-OPERATORS

Machine-Tool Setter-Operators set up and operate various machine tools for use at high tolerance levels.

Occupations in this minor group are classified into the following unit groups:

8221 MACHINE-TOOL SETTER-OPERATORS

UNIT GROUP 8221 MACHINE-TOOL SETTER-OPERATORS

Machine-Tool Setter-Operators set up and operate various machine tools for use at high tolerance levels.

Tasks include:

a) setting up one or more types of machine tools to produce articles in standardised series;
b) operating and monitoring particular types of work machines such as lathes, stamping presses, power shears, metal-bending, milling, sizer, boring, drilling, grinding, honing or metal-sawing machines which may be numerically controlled or linked by an automatic-transfer machine; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8221)

8221-01	Operator, Metal Forming Machine
8221-02	Operator, Watch Production Machine
8221-03	Operator, Needle Production Machine
8221-04	Operator, Cable Production Machine

SUB-MAJOR 83 DRIVERS AND MOBILE PLANT OPERATORS

Drivers and Mobile Plant Operators drive trains and motor vehicles, operate mobile industrial and agricultural machinery and equipment, or execute deck duties on board ships and other water-borne craft.

Occupations in this sub-major group are classified into the following minor groups:

831 LOCOMOTIVE ENGINE DRIVERS AND RELATED WORKERS
832 CAR, VAN AND MOTORCYCLE DRIVERS
833 HEAVY TRUCK AND BUS DRIVERS
834 MOBILE PLANT OPERATORS
835 SHIPS DECK CREWS AND RELATED WORKERS

MINOR GROUP 831 LOCOMOTIVE ENGINE DRIVERS AND RELATED WORKERS

Locomotive Engine Drivers and Related Workers drive or assist in driving locomotive engines to transport passengers and freight, take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

Occupations in this minor group are classified into the following unit groups:

8311 LOCOMOTIVE ENGINE DRIVERS
8312 RAILWAY BRAKE, SIGNAL AND SWITCH OPERATORS

UNIT GROUP 8311 LOCOMOTIVE ENGINE DRIVERS

Locomotive Engine Drivers drive or assist in driving locomotive engines, trains, monorails and similar engines to transport passengers and freight.

Tasks include:

a) operating and maintaining passenger trains;
b) driving or assisting in driving a steam, electric or diesel-electric locomotive engine;
c) driving a locomotive to haul carriages underground or on the surface of a mine or quarry;
d) watching for track hazards, observing signals and indicator gauges; and
e) operating communications systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains.

Examples of the occupations classified here: (refer to index; unit group 8311)

8311-01	Locomotive Driver, Grade A13
8311-02	Railway Driver
8311-03	Locomotive Driver
8311-04	Operator, Commuter

UNIT GROUP 8312 RAILWAY BRAKE, SIGNAL AND SWITCH OPERATORS

Railway Brake, Signal and Switch Operators take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

Tasks include:

a) taking charge of and safeguarding freight train during runs;
b) controlling flow of railway traffic over section of line by operating signals and switches from control panel or signal box;
c) switching and coupling rolling stock in railway yards and sidings in accordance with orders about loading, unloading and make-up of trains;
d) making up trains for hauling by locomotive or cable and directing their movement along haulage ways in a mine or quarry; and
e) checking train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run.

Examples of the occupations classified here: (refer to index; unit group 8312)

8312-01	Braker, Railway
8312-02	Signaller, Railway
8312-03	Shunter, Railway
8312-04	Yardman

MINOR GROUP 832 CAR, VAN AND MOTORCYCLE DRIVERS

Car, Van and Motorcycle Drivers drive and tend motorcycles, motorised tricycles, cars or vans to transport passengers, materials or goods.

Occupations in this minor group are classified into the following unit groups:

8321 MOTORCYCLE RIDERS (DRIVERS)
8322 CAR, TAXI AND VAN DRIVERS

UNIT GROUP 8321 MOTORCYCLE RIDERS (DRIVERS)

Motorcycle Riders (Drivers) drive and tend motorcycles or motorised tricycles equipped to transport materials, goods or passengers.

Tasks include:

a) driving and tending motorcycles or motorised tricycles to transport materials, goods and passengers;
b) observing traffic rules and signals;
c) cleaning and washing vehicle as well as performing maintenance and minor repairs;
d) keeping a record of journeys; and
e) delivering messages.

Examples of the occupations classified here: (refer to index; unit group 8321)

8321-01	Motorcyclist
8321-02	Rider, Despatch
8321-03	Driver, Rickshaw
8321-04	Driver, Motorised Tricycle

UNIT GROUP 8322 CAR, TAXI AND VAN DRIVERS

Car, Taxi and Van Drivers drive and tend motorcars and vans to transport passengers, mail or goods.

Tasks include:
a) driving and tending passengers, vans, cars or taxis;
b) driving and tending cars, vans or small trucks to deliver mail or goods;
c) assisting passengers with handling of luggage;
d) collecting fares, payments for deliveries, or documents certifying deliveries;
e) operating telecommunications equipment to report location and availability and follow directions of control centre;
f) determining the most appropriate route;
g) assisting disabled passengers;
h) driving office vehicles on official duty, tending and maintaining vehicles, and ensuring the safety of the vehicles and their accessories; and
i) operating equipment to facilitate the loading and unloading of disabled passengers.

Examples of the occupations classified here: (refer to index; unit group 8322)

8322-01	Driver Grade H11
8322-02	General Worker (Vehicle Driver), Grade 1
8322-03	General Worker (Driver), Grade 1
8322-04	Driver, Taxi

MINOR GROUP 833 HEAVY TRUCK AND BUS DRIVERS

Heavy Truck and Bus Drivers drive and tend heavy trucks, lorries, buses or street tramcars to transport goods, liquids, heavy materials, mail or passengers.

Occupations in this minor group are classified into the following unit groups:

8331 BUS AND TRAM DRIVERS
8332 HEAVY TRUCK AND LORRY DRIVERS

UNIT GROUP 8331 BUS AND TRAM DRIVERS

Bus and Tram Drivers drive and tend buses or street tramcars to transport passengers, mail or goods.

Tasks include:
a) driving and tending motor bus, trolley bus or motor coach to transport local or long-distance passengers, mail or goods;
b) driving and tending street tramcar transporting passengers;
c) opening and closing doors before or after passengers board or alight;
d) assisting passengers with luggage;
e) controlling lighting, heating and air-conditioning on buses and trams;
f) observing traffic rules to ensure safe progress; and
g) collecting fares or verifying that passengers have the necessary ticket.

Examples of the occupations classified here: (refer to index; unit group 8331)

8331-01	Driver, Bus
8331-02	Driver, Tram
8331-03	Motor Coach Driver
8331-04	Assistant, Bus Driver

UNIT GROUP 8332 HEAVY TRUCK AND LORRY DRIVERS

Heavy Truck and Lorry Drivers drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.

Tasks include:
a) driving and tending a heavy motor vehicles to transport goods, liquids or heavy materials over short or long distances;
b) determining the most appropriate routes;
c) ensuring goods are stowed and securely covered to prevent loss and damage;
d) assisting with or carrying out loading or unloading operations using various lifting or tipping devices;
e) carrying out minor maintenance to vehicles, and arranging major maintenance and repair

f) estimating weights to comply with load limitations, and ensuring the safe distribution of weights.

Examples of the occupations classified here: (refer to index; unit group 8332)

8332-01	Driver, Lorry
8332-02	Assistant Driver, Lorry
8332-03	Driver, Fire-Engine
8332-04	Driver, Dumper

MINOR GROUP 834 MOBILE PLANT OPERATORS

Mobile Plant Operators drive or operate agricultural and other machinery and equipment for handling materials and heavy objects.

Occupations in this minor group are classified into the following unit groups:

8341 MOBILE FARM AND FORESTRY PLANT OPERATORS
8342 EARTH-MOVING AND RELATED PLANT OPERATORS
8343 CRANE, HOIST AND RELATED PLANT OPERATORS
8344 LIFTING TRUCK OPERATORS

UNIT GROUP 8341 MOBILE FARM AND FORESTRY PLANT OPERATORS

Mobile Farm and Forestry Plant Operators drive or operate one or more types of motorised, mobile farm or forestry machinery or equipment used in farming, horticultural and forestry operations.

Tasks include:
a) driving or operating tractor or machinery for ploughing, sowing, harvesting, or other special-purpose farm machinery, or similar tractor-drawn equipment;
b) servicing machinery and performing minor repairs; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8341)

8341-01	Operator, Motorised Farm Equipment
8341-02	Driver, Farm Tractor
8341-03	Driver, Timber Carrier
8341-04	Driver, Winch Truck

UNIT GROUP 8342 EARTH-MOVING AND RELATED PLANT OPERATORS

Earth-Moving and Related Plant Operators operate machines to excavate, grade, level, smooth and compact earth or similar materials.

Tasks include:
a) operating and monitoring excavating machines equipped with moveable shovel, grab-bucket or dragline bucket to excavate and move earth, rock, sand, gravel or similar materials;
b) operating and monitoring machines for digging trenches for sewers, drainage, water, oil, gas or similar pipelines;
c) operating and monitoring machines equipped with a concave steel blade to move, distribute and level earth, sand and other materials;
d) operating and monitoring equipment to remove sand, gravel and mud from the bottom of a body of water;
e) operating and monitoring machines for hammering wooden, concrete or steel piles into the ground;
f) operating and monitoring power rollers to compact and smooth layers of materials in making roads, pavements and similar work;
g) operating and monitoring machines which spread and smooth concrete or bituminous or tar preparations to construct roadways, roads or similar work; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8342)

8342-01	Operator, Backhoe
8342-02	Machine Operator, Trench Digging
8342-03	Operator, Piling-Driver
8342-04	Operator, Bulldozer

UNIT GROUP 8343 CRANE, HOIST AND RELATED PLANT OPERATORS

Crane, Hoist and Related Plant Operators operate and monitor stationary and mobile cranes and other hoisting equipment.

Tasks include:

a) transferring, transporting, moving and organising any type of load such as bulk cargo, break bulk cargo, container, machines, etc. from the ship to the pier or vice versa, to warehouses, workshops, and other places involving moving machinery such as forklifts, tractors, prime movers, transfer cranes, transtainer cranes, straddle cranes, kangaroo cranes, gantry cranes, laufting cranes and levelling cranes;
b) operating and monitoring stationary or mobile cranes to lift, move, position or place equipment and materials;
c) operating and monitoring equipment for hoisting, lowering or raising workers and materials on construction sites or in mines;
d) operating and monitoring ski-lifts and similar equipment;
e) operating and monitoring machinery used to haul ferries or barges with goods, passengers and vehicles across short stretches of water;
f) operating and monitoring machinery to open and close bridges for the passage of road and water traffic;
g) operating and monitoring cranes equipped with dredging attachments to dredge waterways and other areas;
h) operating cranes mounted on boats or barges to lift, move and place equipment and materials; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 8343)

8343-01	Operator, Crane
8343-02	Operator, Hoist
8343-03	Operator, Winch
8343-04	Operator, Elevator Material Handling

UNIT GROUP 8344 LIFTING TRUCK OPERATORS

Lifting Truck Operators drive, operate and monitor lifting trucks or similar vehicles to transport, lift and stack pallets with goods.

Tasks include:

a) operating and monitoring lifting trucks and similar equipment to load and unload, transport, lift and stack goods and pallets in terminals, harbours, warehouses, factories and other establishments;
b) positioning lifting devices under, over, or around loaded pallets, skids and boxes, and securing materials or products to be transported to fixed areas;
c) inspecting equipment to identify wear and damage;
d) performing routine maintenance on vehicles and equipment; and
e) keeping records of work undertaken and breakdowns of vehicles.

Examples of the occupations classified here: (refer to index; unit group 8344)

8344-01	Operator, Truck Forklift
8344-02	Operator, Truck Industrial
8344-03	Operator, Truck Lifting
8344-04	Forklift Driver

MINOR GROUP 835 SHIPS DECK CREWS AND RELATED WORKERS

Ships Deck Crews and Related Workers carry out deck duties on board ships and similar duties on board other water-borne craft.

Occupations in this minor group are classified into the following unit groups:

8351 SHIPS DECK CREWS AND RELATED WORKERS

UNIT GROUP 8351 SHIPS DECK CREWS AND RELATED WORKERS

Ships Deck Crews and Related Workers carry out deck duties on board ships and similar duties on board other water-borne craft.

Tasks include:

a) standing look-out watches at sea and when entering or leaving harbours or other narrow waters;
b) steering the ship according to instructions;
c) handling ropes and wires, and operating mooring equipment;
d) maintaining and operating ship equipment, cargo gear, rigging, life-saving and fire-fighting appliances;
e) performing deck and hull cleaning, scraping, painting and other maintenance duties as required; and
f) breaking out, rigging and stowing cargo-handling gear, stationary rigging and running gear.

Examples of the occupations classified here: (refer to index; unit group 8351)

8351-01	Helmsman
8351-02	Driver, Boat
8351-03	Rower, Canoe
8351-04	Ship Quartermaster

MAJOR GROUP 9

ELEMENTARY OCCUPATIONS

ELEMENTARY OCCUPATIONS

9

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

91 CLEANERS AND HELPERS

911 DOMESTIC, HOTEL AND OFFICE CLEANERS AND HELPERS

9111 DOMESTIC CLEANERS AND HELPERS
9112 CLEANERS AND HELPERS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS

912 VEHICLE, WINDOW, LAUNDRY AND OTHER HAND CLEANING WORKERS

9121 HAND LAUNDERERS AND IRONERS
9122 VEHICLE CLEANERS
9123 SURFACE AND WINDOW CLEANERS
9129 OTHER CLEANING WORKERS NOT ELSEWHERE CLASSIFIED

92 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS

921 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS

9211 CROP FARM LABOURERS
9212 LIVESTOCK FARM LABOURERS
9213 MIXED CROP AND LIVESTOCK FARM LABOURERS
9214 GARDEN AND HORTICULTURAL LABOURERS
9215 FORESTRY LABOURERS
9216 FISHERY AND AQUACULTURE LABOURERS
9219 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS NOT ELSEWHERE CLASSIFIED

93 MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT LABOURERS

931 MINING AND CONSTRUCTION LABOURERS

9311 MINING AND QUARRYING LABOURERS
9312 CIVIL ENGINEERING LABOURERS
9313 BUILDING CONSTRUCTION LABOURERS

932 MANUFACTURING LABOURERS

9321 MANUFACTURING LABOURERS
9329 MANUFACTURING LABOURERS NOT ELSEWHERE CLASSIFIED

933 TRANSPORT AND STORAGE LABOURERS

9331 HAND OR PEDAL VEHICLE DRIVERS
9332 ANIMAL-DRAWN MACHINERY AND VEHICLE DRIVERS
9333 TRANSPORT AND STORAGE LABOURERS
9334 SHELF FILLERS

94 FOOD PREPARATION ASSISTANTS

941 FOOD PREPARATION ASSISTANTS

9411 FAST FOOD PREPARERS
9412 KITCHEN HELPERS

95 STREET AND RELATED SALES AND SERVICE WORKERS

951 STREET AND RELATED SERVICE WORKERS

9511 STREET AND RELATED SERVICE WORKERS

952 STREET VENDORS (EXCLUDING FOOD)

9521 STREET VENDORS (EXCLUDING FOOD)

96 OTHER ELEMENTARY WORKERS

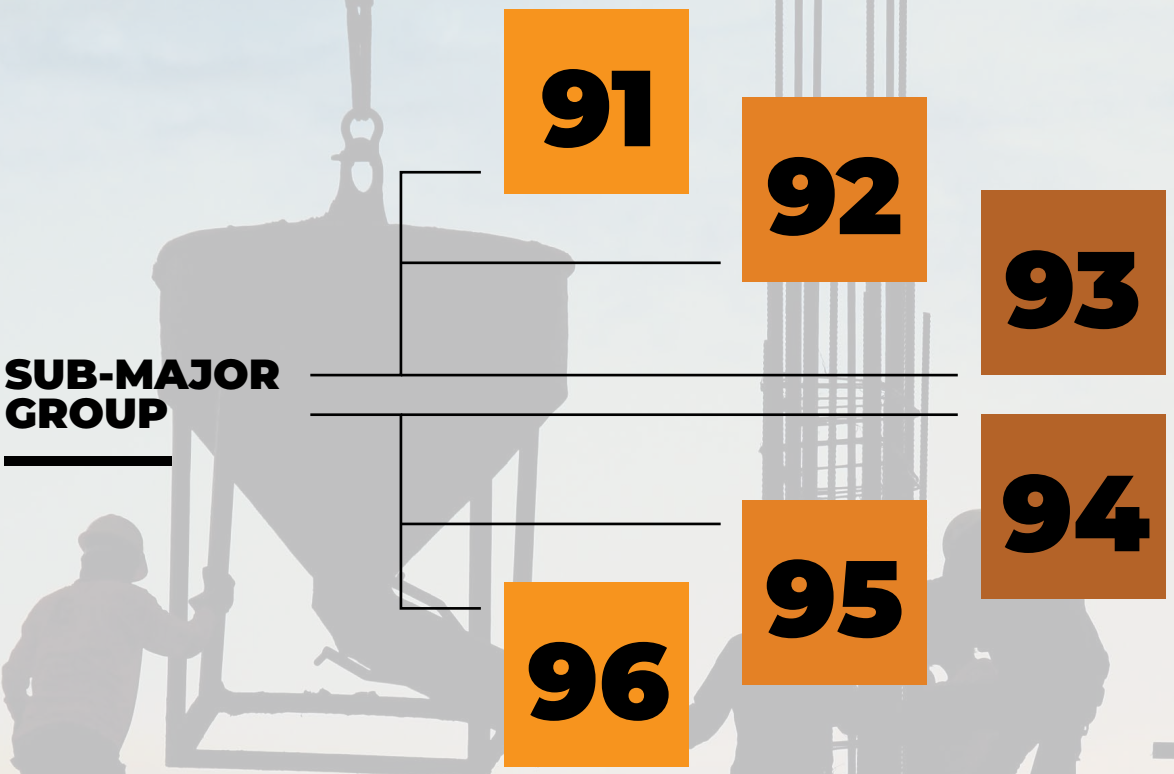
961 REFUSE COLLECTORS

9611 GARBAGE COLLECTORS
9612 REFUSE AND RECYCLABLE WASTE SORTERS
9613 SWEEPERS AND RELATED LABOURERS

962 OTHER ELEMENTARY WORKERS

9621 MESSENGERS, PACKAGE DELIVERERS AND LUGGAGE PORTERS
9622 ODD-JOB PERSONS
9623 METER READERS AND VENDING-MACHINE COLLECTORS
9624 WATER AND FIREWOOD COLLECTORS
9625 ATTENDANTS
9629 ELEMENTARY WORKERS NOT ELSEWHERE CLASSIFIED

ELEMENTARY OCCUPATIONS



91 CLEANERS AND HELPERS
92 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS
93 MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT LABOURERS
94 FOOD PREPARATION ASSISTANTS
95 STREET AND RELATED SALES AND SERVICE WORKERS
96 OTHER ELEMENTARY WORKERS

ELEMENTARY OCCUPATIONS

Description

Perform simple, routine and non-systematic tasks which mainly require the use of handheld tools or with the assistance of simple machines, and in some cases considerable physical effort.

Skills level

Most occupations in this major group require skills at the first level.

Occupations in this major group are classified into the following sub-major groups:

91 CLEANERS AND HELPERS
92 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS
93 MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT LABOURERS
94 FOOD PREPARATION ASSISTANTS
95 STREET AND RELATED SALES AND SERVICE WORKERS
96 OTHER ELEMENTARY WORKERS

SUB-MAJOR 91 CLEANERS AND HELPERS

Cleaners and Helpers perform various tasks in private households, hotels, offices, hospitals and other establishments, as well as in aircraft, train coaches, trams and similar vehicles, in order to keep the interiors and fixtures clean, or launder and press garments by hand.

Occupations in this sub-major group are classified into the following minor groups:

911 DOMESTIC, HOTEL AND OFFICE CLEANERS AND HELPERS
912 VEHICLE, WINDOW, LAUNDRY AND OTHER HAND CLEANING WORKERS

MINOR GROUP 911 DOMESTIC, HOTEL AND OFFICE CLEANERS AND HELPERS

Domestic, Hotel and Office Cleaners and Helpers sweep, vacuum, clean, wash, polish, take care of household linen, purchase household supplies; perform various tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as aircraft, trains, buses and similar vehicles.

Occupations in this minor group are classified into the following unit groups:

9111 DOMESTIC CLEANERS AND HELPERS
9112 CLEANERS AND HELPERS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS

UNIT GROUP 9111 DOMESTIC CLEANERS AND HELPERS

Domestic Cleaners and Helpers sweep, vacuum clean, wash, polish, take care of household linen, purchase household supplies, prepare food, serve meals and perform various other domestic duties.

Tasks include:

a) sweeping, vacuum cleaning, polishing and washing floors and furniture, or washing windows and other fixtures;
b) washing, ironing and cleaning linen and other textiles;
c) washing dishes;
d) preparing, cooking and serving meals and refreshments;
e) purchasing food and other various household supplies;
f) cleaning, disinfecting and deodorising kitchens, bathrooms and toilets;
g) cleaning windows and other glass surfaces; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9111)

9111-01	Amah
9111-02	Domestic Servant
9111-03	Housemaid
9111-04	Helper, Domestic

UNIT GROUP 9112 CLEANERS AND HELPERS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS

Cleaners and Helpers and in Offices, Hotels and Other Establishments perform various cleaning tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as aircraft, trains, buses and similar vehicles.

Tasks include:

a) sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures in buildings, coaches, buses, trams, trains and aircraft;
b) making beds, cleaning bathrooms, supplying towels, soap and related items;
c) cleaning kitchens and generally helping with kitchen work, including dishwashing;
d) picking up rubbish, emptying dustbins and taking rubbish to disposal areas for removal; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9112)

9112-01	Chambermaid
9112-02	Cleaner, Hotel
9112-03	Cleaner, Office
9112-04	Washer

MINOR GROUP 912 VEHICLE, WINDOW, LAUNDRY AND OTHER HAND CLEANING WORKERS

Vehicle, Window, Laundry and Other Hand Cleaning Workers clean windows, showcases or other surfaces of buildings or vehicles and iron, launder or dry-clean linen and other textiles by hand.

Occupations in this minor group are classified into the following unit groups:

9121 HAND LAUNDERERS AND IRONERS
9122 VEHICLE CLEANERS
9123 SURFACE AND WINDOW CLEANERS
9129 OTHER CLEANING WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 9121 HAND LAUNDERERS AND IRONERS

Hand Launderers and Ironers iron or dry-clean linen and other textiles by hand.

Tasks include:

a) laundering and ironing linen, clothing, fabrics and similar articles by hand in a laundry or other establishment;
b) cleaning clothes, fabrics, leather goods and similar articles by hand and with chemical solutions in a dry-cleaning or other establishment;
c) replacing buttons and making minor repairs;
d) placing articles on shelves and hanging articles for delivery and collection; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9121)

9121-01	Worker, Laundry and Dry Cleaning
9121-02	Ironers
9121-03	Dry-Cleaner
9121-04	Operator, Washing

UNIT GROUP 9122 VEHICLE CLEANERS

Vehicle Cleaners wash, clean and polish vehicles.

Tasks include:

a) cleaning, washing and polishing cars and other vehicles by hand or machine;
b) vacuuming vehicle interiors and dry-cleaning carpets and upholstery;
c) applying cleaning agents to remove stains from vehicle interiors;
d) washing tyres and wheel arches and blackening tyres;
e) washing and polishing vehicle windows;
f) emptying and cleaning compartments in vehicles; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9122)

9122-01	Cleaner, Vehicles
9122-02	Washer, Vehicles (Hand)
9122-03	Washer, Auto-polish
9122-04	Worker, Auto-sanding

UNIT GROUP 9123 SURFACE AND WINDOW CLEANERS

Surface and Window cleaners wash and polish windows, other glass or non-glass surfaces.

Tasks include:

a) washing windows or other glass or non-glass surfaces with water or various solutions, drying and polishing them;
b) using ladders, swinging scaffolds, bosun's chairs, hydraulic bucket trucks and other equipment to reach and clean windows in multi-storey buildings;
c) selecting appropriate cleaning or polishing methods; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9123)

9123-01	Cleaner, Window
9123-02	Cleaner, Sliding Door
9123-03	Cleaner, Surface

UNIT GROUP 9129 OTHER CLEANING WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Other Cleaning Workers Not Elsewhere Classified in Minor Group 912: Vehicle, Window, Laundry and Other Hand Cleaning Workers. As an example, this include Worker, Toiletries, Working, Washing, Cleaner, Carpet and Cleaner, Swimming Pool

Tasks include:

a) cleaning windows, materials, walls, swimming pools, cooling towers and objects such as carpets using special equipment and cleaning chemicals;
b) selecting and applying cleaning agents to remove stains;
c) cleaning stone walls, metal surfaces and fascias using high pressure water cleaners and solvents;
d) applying chemicals and high pressure cleaning methods to remove micro-organisms from water and filtration systems and using wet vacuums and other suction equipment to remove scale, accumulated dirt and other deposits from swimming pools, cooling tower components and drains; and
e) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9129)

9129-01	Worker, Toiletries
9129-02	Worker, Washing
9129-03	Cleaner, Carpet
9129-04	Cleaner, Swimming Pool

SUB-MAJOR 92 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS

Agricultural, Forestry, Farming and Fishery Labourers and related workers perform mainly simple and routine farming, forestry, fishing, hunting or trapping tasks which require the use of simple hand-held tools and a lot of physical energy.

Occupations in this sub-major group are classified into the following minor groups:

921 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS

MINOR GROUP 921 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS

Agricultural, Forestry, Farming and Fishery Labourers and related workers perform mainly simple and routine farming, forestry, fishing, hunting or trapping tasks which require the use of simple hand-held tools and a lot of physical energy.

Occupations in this minor group are classified into the following unit groups:

9211 CROP FARM LABOURERS
9212 LIVESTOCK FARM LABOURERS
9213 MIXED CROP AND LIVESTOCK FARM LABOURERS
9214 GARDEN AND HORTICULTURAL LABOURERS
9215 FORESTRY LABOURERS
9216 FISHERY AND AQUACULTURE LABOURERS
9219 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 9211 CROP FARM LABOURERS

Crop Farm Labourers perform simple and routine tasks in the production of crops such as fruit, nuts, grains and vegetables.

Tasks include:
a) digging and shovelling to clean ditches or for other purposes;
b) loading and unloading various crops and other materials;
c) raking, pitching and stacking hay;
d) watering and weeding;
e) picking fruit, vegetables and various plants;
f) helping with planting, harvesting and general farm work;
g) carrying out some basic work on produce such as cleaning and peeling fruit; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9211)

9211-01	Crop Farm Labourer
9211-02	Crop Farm Labourer, Nuts
9211-03	Farm Labourer, Paddy
9211-04	Crop Farm Labourer, Spice

UNIT GROUP 9212 LIVESTOCK FARM LABOURERS

Livestock Farm Labourers perform simple and routine tasks in the production of livestock including poultry and insects.

Tasks include:
a) digging and shovelling to clean ditches or for other purposes;
b) raking, pitching and stacking hay;
c) watering and weeding;
d) feeding, watering and cleaning animals and keeping their stockyard clean; and
e) collecting eggs and placing them in the incubator;
f) carrying out some basic work on the produce; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9212)

9212-01	Livestock Farm Labourer
9212-02	Livestock Farm Cleaner
9212-03	Livestock Farm Labourer, Dairy
9212-04	Livestock Farm Labourer, Poultry

UNIT GROUP 9213 MIXED CROP AND LIVESTOCK FARM LABOURERS

Mixed Crop and Livestock Farm Labourers perform simple and routine tasks in the production of crops and livestock.

Tasks include:
a) digging and shovelling to clean ditches or for other purposes;
b) loading and unloading various crops and other materials;
c) raking, pitching and stacking hay;
d) watering and weeding;
e) picking fruit, vegetables and various plants;
f) helping with planting, harvesting and general farm work;
g) feeding, watering and cleaning animals and keeping their stockyard clean;
h) carrying out some basic work on the produce; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9213)

9213-01	Farm Labourer
9213-02	Farm Hand
9213-03	Plantation Worker

UNIT GROUP 9214 GARDEN AND HORTICULTURAL LABOURERS

Garden and Horticultural Labourers perform a variety of simple gardening tasks.

Tasks include:
a) preparing the soil and planting flowers, shrubs and trees in parks or public or private gardens;
b) trimming and clipping around paths, flower beds and fencing using clippers and edging tools;
c) pruning shrubs and trees to shape and promote growth using pruning tools;
d) weeding and tending plants;
e) spraying shrubs and trees with fertiliser or insecticide;
f) raking, sweeping and burning leaves, grass or litter;
g) watering the lawn and plants using a hose, watering can or fixed or portable sprinkler system; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9214)

9214-01	Grass Cutter
9214-02	Tree Cutter
9214-03	Worker, Playground Maintenance
9214-04	Worker, Golf Course Maintenance

UNIT GROUP 9215 FORESTRY LABOURERS

Forestry Labourers perform a variety of simple forestry, hunting and trapping tasks.

Tasks include:
a) digging holes for tree planting;
b) stacking logs and timber;
c) clearing undergrowth in forest stands;
d) cleaning up landing areas at logging sites;
e) digging pits and holes, setting traps, keeping watch and performing other simple tasks connected to hunting and trapping;
f) carrying out some basic work on the produce;
g) performing related tasks; and
h) supervising other workers.

Examples of the occupations classified here: (refer to index; unit group 9215)

9215-01	Labourer, Forestry
9215-02	Labourer, Hunting
9215-03	Labourer, Trapping
9215-04	Tree Feller

UNIT GROUP 9216 FISHERY AND AQUACULTURE LABOURERS

Fishery and Aquaculture Labourers perform a variety of simple and routine fishery and aquaculture tasks.

Tasks include:
a) digging the sea-bed and feeding the fish and molluscs that are being cultivated;
b) cleaning up the ocean floor and feeding the fish and molluscs;
c) collecting seaweed, sea mosses, clams and other molluscs;
d) preparing nets, lines and maintaining fishing equipment and other deck equipment;
e) handling fishing gear to catch fish and other marine life;
f) cleaning, sorting and packing of fish and seafood in ice and salt;
g) cleaning the surface of the deck and fish holds;
h) carrying out some basic work on the produce; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9216)

9216-01	Labourer, Fishery
9216-02	Aquaculture, Labourer
9216-03	Pond Worker, Shellfish
9216-04	Cage Worker, Fish

UNIT GROUP 9219 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS NOT ELSEWHERE CLASSIFIED

This unit group includes Agricultural, Forestry, Farming and Fishery Labourers Not Elsewhere Classified in Minor Group: 921: Agricultural, Forestry, Farming and Fishery Labourers. As an example, this include Labourer, Crocodile Cage and Labourer, Snake Cage.

Tasks include:
a) tending, maintaining and cleaning sheds and cages; and
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9219)

9219-01	Labourer, Crocodile Cage
9219-02	Labourer, Snake Cage

SUB-MAJOR 93 MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT LABOURERS

Mining, Construction, Manufacturing and Transport Labourers perform simple and routine tasks in mining and quarrying, civil engineering, manufacturing and transport activities, and the storage and operation of animal-drawn vehicles and machinery.

Occupations in this sub-major group are classified into the following minor groups:

931 MINING AND CONSTRUCTION LABOURERS
932 MANUFACTURING LABOURERS
933 TRANSPORT AND STORAGE LABOURERS

MINOR GROUP 931 MINING AND CONSTRUCTION LABOURERS

Mining and Construction Labourers perform simple and routine tasks connected to mining, quarrying, civil engineering and building operations.

Occupations in this minor group are classified into the following unit groups:

9311 MINING AND QUARRYING LABOURERS
9312 CIVIL ENGINEERING LABOURERS
9313 BUILDING CONSTRUCTION LABOURERS

UNIT GROUP 9311 MINING AND QUARRYING LABOURERS

Mining and Quarrying Labourers perform simple and routine tasks related to mining or quarrying operations.

Tasks include:
a) washing the sluice gauge to recover tin concentrate using the pan;
b) maintaining or constructing underground installations;
c) removing wood and steel supports from disused work areas in mines and quarries;
d) loading, moving, sorting and stacking materials and supplies;
e) digging out chalk, clay, gravel or sand from open pits;
f) clearing various obstructions as instructed; and
g) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9311)

9311-01	Labourer, Bucket
9311-02	Labourer, Mining
9311-03	Worker, Tin Mine
9311-04	Dulang Washer

UNIT GROUP 9312 CIVIL ENGINEERING LABOURERS

Civil Engineering Labourers perform a variety of routine tasks related to the building and maintenance of roads, dams and similar constructions.

Tasks include:
a) digging and filling holes and trenches, spreading gravel and related materials and performing other tasks related to building and maintenance of railway tracks and roads;
b) loading and unloading construction materials and equipment and transporting them to construction sites; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9312)

9312-01	Labourer, Construction (Civil Engineering)
9312-02	Labourer, Maintenance (Dam)
9312-03	Worker, Site General
9312-04	Formwork Construction Worker

UNIT GROUP 9313 BUILDING CONSTRUCTION LABOURERS

Building Construction Labourers perform a variety of routine tasks related to building construction and demolition work.

Tasks include:
a) cleaning used building bricks and doing other simple work on demolition sites;
b) clearing various obstructions as instructed;
c) loading and unloading construction materials and equipment and transporting them around building sites; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9313)

9313-01	Hod Carrier
9313-02	Labourer, Maintenance
9313-03	Worker, Maintenance
9313-04	Grave-Digger

MINOR GROUP 932 MANUFACTURING LABOURERS

Manufacturing Labourers and related workers perform simple and routine tasks related to manufacturing which require the use of simple hand-held tools and mainly need a lot of physical energy.

Occupations in this minor group are classified into the following unit groups:

9321 MANUFACTURING LABOURERS
9329 MANUFACTURING LABOURERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 9321 MANUFACTURING LABOURERS

Manufacturing Labourers weighing, packing and labelling goods and products by hand.

Tasks include:
a) weighing, coating, closing, and packing goods and various products by hand
b) fill products into bottles, cans, boxes, bags and other containers by hand
c) labelling products, packages and various containers by hand
d) performing related tasks

Examples of the occupations classified here: (refer to index; unit group 9321)

9321-01	Packer (Hand)
9321-02	Labeller (Hand)
9321-03	Wrapper (Hand)
9321-04	Labourer, Manufacturing

UNIT GROUP 9329 MANUFACTURING LABOURERS NOT ELSEWHERE CLASSIFIED

This unit group includes Manufacturing Labourers Not Elsewhere Classified in Minor Group 932:
Manufacturing Labourers.

Tasks include:
a) carrying out various manufacturing work manually;
b) moving, lifting, carrying, loading, unloading or washing raw materials or products in various manufacturing industries;
c) sorting products or components manually; and
d) performing related tasks.

MINOR GROUP 933 TRANSPORT AND STORAGE LABOURERS

Transport and Storage Labourers propel cycles and similar vehicles to transport passengers or goods, drive animal-drawn vehicles to transport passengers or goods, drive animal-drawn machinery, handle freight, and stock shelves and display areas in stores.

Occupations in this minor group are classified into the following unit groups:

9331 HAND OR PEDAL VEHICLE DRIVERS
9332 ANIMAL-DRAWN MACHINERY AND VEHICLE DRIVERS
9333 TRANSPORT AND STORAGE LABOURERS
9334 SHELF FILLERS

UNIT GROUP 9331 HAND OR PEDAL VEHICLE DRIVERS

Hand or Pedal Vehicle Drivers propel cycles and similar vehicles to transport passengers or goods.

Tasks include:
a) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
b) moving a vehicle in the desired direction with due regard to other traffic and traffic regulations;
c) inspecting vehicle components to identify wear and damage;
d) maintaining vehicles, making minor repairs and installing replacement parts; and
e) collecting fares or charges.

Examples of the occupations classified here: (refer to index; unit group 9331)

9331-01	Rickshaw Puller
9331-02	Pedal Vehicle Driver

UNIT GROUP 9332 ANIMAL-DRAWN MACHINERY AND VEHICLE DRIVERS

Animal-Drawn Machinery and Vehicle Drivers drive animal-drawn vehicles to transport passengers or goods usually in connection with farming.

Tasks include:
a) harnessing animals and hitching them to vehicles or machinery;
b) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
c) driving animals in the desired direction with due regard to other traffic and traffic regulations;
d) collecting fares or charges;
e) driving animals to haul wagons in mines or quarries;
f) driving animals hitched to farm or other machinery;
g) driving working elephants;
h) maintaining vehicles or machinery, making minor repairs and installing replacement parts; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9332)

9332-01	Driver, Animal-Drawn Vehicle
9332-02	Driver, Bullock Cart
9332-03	Driver, Animal Train
9332-04	Mahout

UNIT GROUP 9333 TRANSPORT AND STORAGE LABOURERS

Transport and Storage Labourers carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargo and other freight, or carrying and stacking goods in various warehouses.

Tasks include:
a) packing office or household furniture, machines, appliances and related goods to be transported from one place to another;
b) conveying materials from or around the work area in an industrial establishment;
c) assisting in tying down loads and covering them with tarpaulin;
d) carrying goods to be loaded on or unloaded from vans, trucks, wagons, ships or aircraft;
e) carrying and stacking goods in warehouses and similar establishments;
f) operating an electric powered forklift to transport goods in the warehouse;
g) loading goods into and unloading from the trailer;
h) ordering and replacing goods taken, stock, entering data and checking products to be shipped against shipping orders;
i) taking charge of regular maintenance of forklift; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9333)

9333-01	Freight Worker
9333-02	Docker
9333-03	Worker, Shipyard
9333-04	Stevedore

UNIT GROUP 9334 SHELF FILLERS

Shelf Fillers stock shelves and display areas and keep stock clean and in order in supermarkets and other retail and wholesale shops.

Tasks include:
a) placing goods neatly in bins and on racks, and stacking bulky goods on the floor;
b) filling shelves with goods ensuring goods with the earliest use-by dates are at the front of shelves;
c) removing goods with past due use-by dates;
d) maintaining shelf order by removing stock belonging in a different location;
e) noting goods that have been sold and collecting goods needed from the stockroom;
f) obtaining articles for customers from the shelf or stockroom;
g) directing customers to location of articles sought;
h) receiving, opening, unpacking and inspecting for damage merchandise from manufacturers or distributors; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9334)

9334-01	Shelf Filler
9334-02	Stock Filler
9334-03	Stock Handler
9334-04	Stacker

SUB-MAJOR 94 FOOD PREPARATION ASSISTANTS

Food Preparation Assistants perform a variety of food and beverage preparation duties, clean the kitchen and wash crockery.

Occupations in this sub-major group are classified into the following minor groups:

941 FOOD PREPARATION ASSISTANTS

MINOR GROUP 941 FOOD PREPARATION ASSISTANTS

Food Preparation Assistants perform a variety of food and beverage preparation duties, clean the kitchen and wash crockery.

Occupations in this minor group are classified into the following unit groups:

9411 FAST FOOD PREPARERS
9412 KITCHEN HELPERS

UNIT GROUP 9411 FAST FOOD PREPARERS

Fast Food Preparers prepare and cook foods and beverages that involve simple preparation processes and a small number of ingredients. They may take orders from customers and serve at counters or tables.

Tasks include:

a) preparing simple or pre-prepared foods and beverages such as sandwiches, burgers, pizzas, salads and coffee;
b) washing, cutting, weighing and mixing foods for cooking;
c) operating single-process cooking equipment such as grills, deep-fat fryers or griddles;
d) cooking pre-prepared food;
e) cleaning the food preparation area, surfaces and cooking utensils;
f) ordering and taking delivery of fast food ingredients;
g) maintaining standards of sanitation, health and safety in the workplace; and
h) ensuring that food prepared meets the requirements for quality and quantity.

Examples of the occupations classified here: (refer to index; unit group 9411)

9411-01	Fast Food Preparer
9411-02	Fast Food Cook
9411-03	Short Order Cook
9411-04	Restaurant Crew

UNIT GROUP 9412 KITCHEN HELPERS

Kitchen Helpers clean tables and kitchen areas, wash dishes, prepare ingredients, and perform various duties to assist cooks and chefs to prepare and serve food and beverages.

Tasks include:

a) cleaning the kitchen, food preparation areas and food serving counters;
b) assisting cooks and chefs in food preparation by washing, peeling, hammering, cutting, weighing and mixing ingredients;
c) assembling dishes for serving;
d) opening packages and storing raw materials in refrigerators, cupboards or other storage areas;
e) washing dishes and kitchen utensils, and keeping them;
f) preparing, cooking, filtering and heating simple food;
g) scraping food from dirty dishes and washing them by hand or placing them in racks or on the conveyor to the dishwashing machine; and
h) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9412)

9412-01	Kitchen Helper
9412-02	Hand Dish Washer
9412-03	Kitchen Assistant
9412-04	Kitchen Porter

SUB-MAJOR 95 STREET AND RELATED SALES AND SERVICE WORKERS

Street and Related Sales and Service Workers prepare goods (not including fast food) for sale and provide various services on the street and in other public places such as stations.

Occupations in this sub-major group are classified into the following minor groups:

951 STREET AND RELATED SERVICE WORKERS
952 STREET VENDORS (EXCLUDING FOOD)

MINOR GROUP 951 STREET AND RELATED SERVICE WORKERS

Street and Related Service Workers provide a variety of services on the street and in other public places including cleaning shoes, washing car windows, looking after property and provide other on-the-spot on the street.

Occupations in this minor group are classified into the following unit groups:

9511 STREET AND RELATED SERVICE WORKERS

UNIT GROUP 9511 STREET AND RELATED SERVICE WORKERS

Street and Related Service Workers provide a variety of services on the street and in other public places including cleaning shoes, washing car windows, handing out leaflets, looking after property and provide other on-the-spot on the street.

Tasks include:

a) selling goods;
b) ordering goods;
c) obtaining the materials necessary to perform services;
d) approaching people on the street to offer services;
e) cleaning and polishing shoes;
f) cleaning and polishing the car windows;
g) helping drivers to find parking and making sure the car is not damaged during the absence of the driver;
h) handing out leaflets and free newspapers;
i) receiving immediate payment; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9511)

9511-01	Street Car Washer
9511-02	Errand boy
9511-03	Car Guard
9511-04	Leaflet Distributor

MINOR GROUP 952 STREET VENDORS (EXCLUDING FOOD)

Street Vendors (Excluding Food) sell usually a limited range of goods or provide services on streets and public places.

Occupations in this minor group are classified into the following unit groups:

9521 STREET VENDORS (EXCLUDING FOOD)

UNIT GROUP 9521 STREET VENDORS (EXCLUDING FOOD)

Street Vendors (Excluding Food) sell usually a limited range of goods or provide services from barrows or kiosks on streets and public places.

Tasks include:

a) setting up and displaying merchandise at public places or stands;
b) ordering or purchasing supplies and storing stocks in barrows or stands;
c) delivering merchandise, serving customers, collecting payment and giving change; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9521)

9521-01	Newspaper Vendor
9521-02	Pedlar
9521-03	Hawker

SUB-MAJOR 96 OTHER ELEMENTARY WORKERS

Other Elementary Workers collect refuse from buildings, yards, streets and other public places or keep streets and other public places clean or perform odd jobs for households or establishments.

Occupations in this sub-major group are classified into the following minor groups:

961 REFUSE COLLECTORS
962 OTHER ELEMENTARY WORKERS

MINOR GROUP 961 REFUSE COLLECTORS

Refuse Collectors collect, process and recycle items from buildings, yards, streets and other public places, or keep streets and other public places clean.

Occupations in this minor group are classified into the following unit groups:

9611 GARBAGE COLLECTORS
9612 REFUSE AND RECYCLABLE WASTE SORTERS
9613 SWEEPERS AND RELATED LABOURERS

UNIT GROUP 9611 GARBAGE COLLECTORS

Garbage Collectors collect and remove refuse and items for recycling from buildings, yards, streets and other public places.

Tasks include:
a) driving or riding in refuse trucks;
b) collecting refuse from residential buildings, commercial and industrial establishments;
c) loading refuse into bins or refuse trucks;
d) unloading the refuse truck;
e) collecting stool containers from private residences and other buildings; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9611)

9611-01	Worker, Refuse Disposal
9611-02	Scrap Handler
9611-03	Collector, Garbage
9611-04	Collector, Refuse

UNIT GROUP 9612 REFUSE AND RECYCLABLE WASTE SORTERS

Refuse and Recyclable Waste Sorters identify, collect and sort discarded items that are suitable for recycling at disposal sites and recycling enterprises or in buildings, streets and other public places.

Tasks include:
a) collecting items for recycling from domestic, commercial and industrial premises or from public places such as streets;
b) sorting paper, glass, plastic, aluminium or other recycling materials by type;
c) placing these items in designated compartments;
d) identifying and setting aside items of furniture, equipment, machinery or components that are suitable for repair or re-use;
e) selling recyclable or reusable materials; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9612)

9612-01	Rubbish Sorter
9612-02	Recycling Worker
9612-03	Scrap Paper Merchant
9612-04	Refuse Sorter

UNIT GROUP 9613 SWEEPERS AND RELATED LABOURERS

Sweepers and Related Labourers sweep and clean streets, parks, airports, stations and other public places.

Tasks include:

a) sweeping streets, parks, airports, stations and similar public places;
b) operating a mechanical suction sweeper for cleaning roads;
c) beating dust out of carpets by using a carpet-beater;
d) cleaning up rubbish and leaves from streets and parks;
e) cleaning kindergarten grounds; and
f) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9613)

9613-01	Sweeper, Road
9613-02	Sweeper, Park
9613-03	Sweeper, Floor
9613-04	Labourer, Odd-Jobbing

MINOR GROUP 962 OTHER ELEMENTARY WORKERS

Other Elementary Workers include workers who deliver and carry messages and packages, collect money from vending machines, read meters, carry water and collect firewood, collect and issue tickets for parking or events, work as attendants and perform various other elementary work.

Occupations in this minor group are classified into the following unit groups:

9621 MESSENGERS, PACKAGE DELIVERERS AND LUGGAGE PORTERS
9622 ODD-JOB PERSONS
9623 METER READERS AND VENDING-MACHINE COLLECTORS
9624 WATER AND FIREWOOD COLLECTORS
9625 ATTENDANTS
9629 ELEMENTARY WORKERS NOT ELSEWHERE CLASSIFIED

UNIT GROUP 9621 MESSENGERS, PACKAGE DELIVERERS AND LUGGAGE PORTERS

Messengers, Package Deliverers and Luggage Porters carry and deliver messages, packages and other items within an establishment or between establishments, to households and elsewhere, or carry luggage especially at hotels, stations and airports.

Tasks include:

a) assisting the smooth running of the office daily by ensuring the movement of files, delivery and registration of letters, memos and other documents and making photocopies of letters, memos and documents;
b) delivering messages, packages and other items within an establishment or between establishments, or elsewhere;
c) performing the duties of a post-runner;
d) delivering various goods to and from enterprises, shops, households and other places;
e) carrying and delivering luggage at stations, airports and elsewhere;
f) collecting and delivering files, messages, documents and other items within or on behalf of an office, industrial establishment or business;
g) putting up posters or displaying posters and banners in prominent places to advertise entertainment, political events or product; and
h) providing services to Members of Parliament during parliamentary sittings, distributing letters, brochures and notes as well as monitoring the safety and discipline of MPs and visitors in the house as well as helping to organise books / pamphlets and the Order Paper before the sitting commences; and
i) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9621)

9621-01	General Assistant (Notice Boy) Grade 1
9621-02	Notice Boy Grade N11
9621-03	General Assistant (Support) Grade 1
9621-04	Messenger, Courier

UNIT GROUP 9622 ODD-JOB PERSONS

Odd-Job Persons clean, paint and maintain buildings, grounds and facilities, and undertake simple repairs.

Tasks include:

a) maintaining the cleanliness of the area / office building, planting and tending trees, fertilising, pruning trees, applying pesticide to grass and do arranging potted plants for interior decoration;
b) repairing broken windows, screens, doors, fences, barbecues, picnic tables, shelves, cupboards and other items;
c) replacing defective items such as light bulbs;
d) repairing and painting interior and exterior surfaces such as walls, ceilings and fences;
e) adjusting doors and windows;
f) replacing tap washers;
g) putting up handrails and grab rails;
h) unloading coal or wood and putting it into cellars of private households or establishments; and
i) performing odd jobs; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9622)

9622-01	General Worker (General Services) Grade 1
9622-02	Odd-Job Person
9622-04	General Worker
9622-05	Handyperson

UNIT GROUP 9623 METER READERS AND VENDING-MACHINE COLLECTORS

Meter Readers and Vending-Machine Collectors fill stocks in vending machines and collect money from the machines or from parking meters and other coin-boxes, or read electricity, gas or water meters.

Tasks include:

a) filling storage spaces of vending machines and collecting money from their containers;
b) collecting money from parking meters and similar coin-boxes;
c) reading electricity, gas or water meters and recording their consumption; and
d) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9623)

9623-01	Meter Reader
9623-02	Money Collector, Vending Machine

UNIT GROUP 9624 WATER AND FIREWOOD COLLECTORS

Water and Firewood Collectors collect water and wood used for cooking, heating, cleaning and others.

Tasks include:

a) cutting and collecting wood from the forest for sale or as fuel or for own consumption;
b) collecting water in leather bags, buckets or other containers from rivers, ponds or wells and delivering the water to work sites, the houses of clients or to own household for cleaning, cooking and other uses; and
c) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9624)

9624-01	Firewood Collector
9624-02	Water Carrier

UNIT GROUP 9625 ATTENDANTS

Attendants are primarily concerned with the provision of services in offices, industrial or business, recreational and related establishments.

Tasks include:

a) attending to patients' needs and maintaining ward cleanliness in hospitals and related establishments;
b) cleaning laboratory equipment;
c) operating passenger or goods lift in buildings;
d) attending to the needs of persons engaged in sports;
e) collecting parking fees, issuing ticket stubs, directing customers to parking spaces and parking cars;
f) collecting tickets and admitting visitors to amusement parks and rides, assisting visitors to get on and off rides, and securing and releasing safety belts and bars;
g) assigning bowling alleys to customers, issuing score sheets, renting out bowling shoes and collecting fees;
h) scheduling the use of golf courses, tennis courts, fitness clubs and other recreational facilities, collecting fees from players and selling or renting out sports equipment;
i) cleaning and keeping lavatories in buildings such as offices, theatres, restaurants and other establishments in neat and orderly condition; and
j) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9625)

9625-01	Attendant
9625-02	Attendant, Laboratory
9625-03	Attendant, Hospital
9625-04	Attendant, Veterinary

UNIT GROUP 9629 ELEMENTARY WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Elementary Workers Not Elsewhere Classified in Minor Group 962: Other Elementary Workers. As an example, this group include Labourer and Inflatable Worker

Tasks include:

a) doing general work;
b) performing related tasks.

Examples of the occupations classified here: (refer to index; unit group 9629)

9629-01	Labourer
9629-02	Inflatable Worker

MAJOR GROUP 0

ARMED FORCES

ARMED FORCES

0

MAJOR GROUP
SUB-MAJOR GROUP
MINOR GROUP
UNIT GROUP

01 MALAYSIAN ARMY (MA)

011 PROFESSIONAL DUTY OFFICERS (MA)

0111 PROFESSIONAL DUTY OFFICERS (MA)

012 GENERAL DUTY OFFICERS (MA)

0121 GENERAL DUTY OFFICERS (MA)

013 PERSONNEL OF OTHER RANKS (MA)

0131 PERSONNEL OF OTHER RANKS (MA)

02 ROYAL MALAYSIAN NAVY (RMN)

021 GENERAL DUTY OFFICERS (RMN)

0211 GENERAL DUTY OFFICERS (RMN)

022 PERSONNEL OF OTHER RANKS (RMN)

0221 PERSONNEL OF OTHER RANKS (RMN)

03 ROYAL MALAYSIAN AIR FORCE (RMAF)

031 GENERAL DUTY OFFICERS (RMAF)

0311 GENERAL DUTY OFFICERS (RMAF)

032 PERSONNEL OF OTHER RANKS (RMAF)

0321 PERSONNEL OF OTHER RANKS (RMAF)

ARMED FORCES

SUB-MAJOR GROUPS

01

02

03

01 MALAYSIAN ARMY (MA)
02 ROYAL MALAYSIAN NAVY (RMN)
03 ROYAL MALAYSIAN AIR FORCE (RMAF)

ARMED FORCES

Description

The Malaysian Armed Forces (MAF) is divided into three branches, namely the Malaysian Army (MA), Royal Malaysian Navy (RMN) and Royal Malaysian Air Force (RMAF). The main role of the MAF is to defend the sovereignty and territorial integrity of the country against external threats whereas its secondary role is to assist the public authorities in restoring and maintaining public order, enforcing maritime law, defending against internal threats, assisting in disaster relief and national development operations as well as providing support in peacekeeping efforts under the banner of the United Nations (UN).

The ATM Services Scheme is divided into the MAF Permanent Force Officer Scheme and the MAF Permanent Army Soldier Scheme. MAF officers will be commissioned with the starting rank of Junior Lieutenant or equivalent by His Majesty the Yang di-Pertuan Agong after undergoing Training of Cadet Officers and lasykar soldiers (Other Ranks) they will be appointed as Private or equivalent to serve after undergoing Basic Military Training. All serving military personnel must have high discipline and they are subject to the Armed Forces Act 1972. Civil Servants serving under the Ministry of Defense Malaysia are not categorized as ATM members

Skills level

Reference to skill level is not used in defining the scope of this major group.

Occupations in this major group are classified into the following sub-major groups:

01 MALAYSIAN ARMY (MA)
02 ROYAL MALAYSIAN NAVY (RMN)
03 ROYAL MALAYSIAN AIR FORCE (RMAF)

SUB MAJOR 01 MALAYSIAN ARMY (MA)

The Malaysian Army (MA) is a branch of the MAF. The primary role of the MA is to defend the land area and strategic interests of the country against external threats and to ensure that the forces remain vigilant and ready to protect the sovereignty and stability of the country. As a secondary role, the MA assists the police and public authorities in maintaining public order and conducting anti-terrorism operations. In addition, the MA assists the public authorities in disaster relief and national development operations.

Occupations in this minor group are classified in to the following unit groups:

011 PROFFESIONAL DUTY OFFICERS (MA)
012 GENERAL DUTY OFFICERS (MA)
013 PERSONNEL OF OTHER RANKS (MA)

MINOR GROUP 011 PROFESSIONAL DUTY OFFICERS (MA)

Professional Duty Officers (MA) means individuals who perform support functions such as Medical Officers, Dental Officers and Pharmacy Officers.

Occupations in this minor group are classified into the following unit groups:

0111 PROFESSIONAL DUTY OFFICERS (MA)

UNIT GROUP 0111 PROFESSIONAL DUTY OFFICERS (MA)

Professional Duty Officers (MA) comprise medical officers, dental officers and pharmacy officers, classified as a combat support group, which provides medical assistance to front-line combatants in wartime. However, in peacetime, this group provides medical services, in order of priority, to the Malaysian Armed Forces covering military personnel, their families, ex-military personnel and civilians in need of their services. In addition, professional duty officers are actively involved in community projects in the rural areas.

Tasks include:
a) managing and administering Armed Forces Clinics and Armed Forces Hospitals;
b) providing treatment to military personnel, their families, ex-military personnel and civilians;
c) providing care to rural residents during community projects; and
d) participating in disaster relief operations and humanitarian missions under the banner of the United Nations (UN).

Occupations classified here: (refer to index; unit group 0111)

0111-01	Medical Officer
0111-02	Dental Officer
0111-03	Pharmacy Officer

MINOR GROUP 012 GENERAL DUTY OFFICERS (MA)

General Duty Officers (MA) are individuals who perform the main military and management functions. The rank classification for General Duty Officers (MA) comprises Midshipman, Lieutenant, Captain, Major, Lieutenant Colonel, Colonel, Brigadier General, Major General, Lieutenant General and General.

Occupations in this minor group are classified into the following unit groups:

0121 GENERAL DUTY OFFICERS (MA)

UNIT GROUP 0121 GENERAL DUTY OFFICERS (MA)

General Duty Officers (MA) have the leadership role in combat groups, combat support groups and service support groups. The combat group consists of troops in the forefront of battle during wartime. The combat support group provides assistance to the combat group, while the service support group provides logistical support to all the groups.

Tasks include:
a) planning operational assignments at home and abroad;
b) managing logistics and asset requirements for national defence;
c) developing training systems and human resources in order to integrate man and technology;
d) ensuring that the MA personnel stand ready to face any threats from enemies of the state;
e) ensuring that all high-tech assets of the MA are well maintained and can be deployed at any time;
f) training subordinate personnel on warfare strategies and knowledge;
g) planning and assisting the public authorities in maintaining public order; and
h) planning and implementing efforts to gather, evaluate and disseminate tactical intelligence pertaining to national defence.

Occupations classified here: (refer to index; unit group 0121)

0121-01	Royal Malay Regiment Officer
0121-02	Royal Ranger Regiment Officer
0121-03	Royal Armoured Corps Officer
0121-04	Royal Signals Regiment Officer
0121-05	Royal Engineer Regiment Officer
0121-06	Royal Artillery Regiment Officer
0121-07	General Services Corps Officer
0121-08	Royal Medical Corps Officer
0121-09	Royal Military Police Corps Officer
0121-10	Royal Intelligence Corps Officer
0121-11	Royal Logistics Corps Officer

0121-12	Royal Ordnance Corps Officer
0121-13	Royal Electrical and Mechanical Engineer Corps Officer
0121-14	Armed Forces Religious Corps Officer
0121-15	Territorial Army Regiment Officer
0121-16	Border Regiment Officer

MINOR GROUP 013 PERSONNEL OF OTHER RANKS (MA)

Personnel of Other Ranks (MA) form the backbone of the MA. The rank classification of personnel of other ranks comprises recruit, private, Lance Corporal, Corporal, Sergeant, Staff Sergeant, Warrant Officer II and Warrant Officer I.

Occupations in this minor group are classified into the following unit groups:

0131 PERSONNEL OF OTHER RANKS (MA)

UNIT GROUP 0131 PERSONNEL OF OTHER RANKS (MA)

Personnel of Other Ranks (MA) assist superiors in ensuring that the mission they have been assigned is successfully executed. In addition, the performance of duties depends on the speciality of the corps/regiment to which they belong.

Tasks include:

a) carrying out the responsibilities planned by superior officers in all aspects of national defence;
b) updating knowledge of recent wars;
c) being ready to be deployed to defend the country against enemies of the state;
d) ensuring that all MA assets are well maintained and can be deployed at any time;
e) training subordinate personnel in warfare strategies and knowledge;
f) assisting the public authorities in maintaining public order; and
g) assisting in efforts to gather, evaluate and disseminate tactical intelligence pertaining to national defence.

Occupations classified here: (refer to index; unit group 0131)

0131-01	Member of the Infantry
0131-02	Member of the Infantry Assistance Weapon
0131-03	Member of Transportation Management
0131-04	Krew Mekanize
0131-05	Military Clerk
0131-06	Member of Infantry
0131-07	Physical Trainer
0131-08	Serang Pioneer
0131-09	Team Crew
0131-10	Member of the Brass Band
0131-11	Member of the Special Movement
0131-12	Armor Crew
0131-13	Communication and Information Technician
0131-14	Communication and Information System
0131-15	Spokesman Kombat Semboyan
0131-16	Scratches
0131-17	Surveyor
0131-18	Bricklayers
0131-19	Pipe Worker
0131-20	Metal Worker
0131-21	Wood Worker and Joiner
0131-22	Painters and Decorators
0131-23	Plant Driver
0131-24	Fitter Combustion and Pam
0131-25	Plant Supervisor
0131-26	Electrician
0131-27	Destruction Technician
0131-28	Gunners
0131-29	Ballistic Data Processing
0131-30	Artillery Surveyor
0131-31	Artillery Detectors

0131-32	Members of the Shot Control
0131-33	Member of the Air Defense Artillery
0131-34	Radar Operator
0131-35	Military Accounting Clerk
0131-36	Military Accounting System
0131-37	Educational Assistant
0131-38	Combat Reporters
0131-39	Paramedics
0131-40	Assistant Medical Officer
0131-41	Trained Nurse
0131-42	Assistant Environmental Health Officer
0131-43	Medical Laboratory Technologist
0131-44	Radiographer
0131-45	Assistant Pharmaceutical Officer
0131-46	Dental Technologist
0131-47	Dental Nurse
0131-48	Physiotherapist Medical
0131-49	Medical Therapist, Occupational
0131-50	Assistant Veterinary Officer Grade G29
0131-51	Military Police Member
0131-52	Security and Response Members
0131-53	The Nerves of the Nervous War
0131-54	Imagery Intelligence
0131-55	Strategic Intelligence
0131-56	Operation Human Intelligence
0131-57	Special Intelligence Operations
0131-58	Army Chef
0131-59	Logistic Technician
0131-60	Bullet Technician
0131-61	Printing Technician
0131-62	Automotive Engineering Technician
0131-63	Electronic Engineering Technician
0131-64	Weapons Engineering Technician
0131-65	Manufacturing Engineering Technician
0131-66	Return Engineering Engineer
0131-67	Avionic Engineering Technician
0131-68	Aeromechanical Engineering Technician
0131-69	Aircraft Engineering Engineer
0131-70	Military Islamic Affairs Advisor

SUB MAJOR 02 ROYAL MALAYSIAN NAVY (RMN)

The **Royal Malaysian Navy (RMN)** is a branch of the Malaysian Armed Forces and the main agency responsible for maritime surveillance and defence operations of the country through surface and sub-surface warfare. In addition, the navy collaborates with maritime enforcement agencies to ensure that the country's territorial waters are closely monitored against any intrusion by foreign elements.

Occupations in this minor group are classified in to the following unit groups:

021 GENERAL DUTY OFFICERS (RMN)
022 PERSONNEL OF OTHER RANKS (RMN)

MINOR GROUP 021 GENERAL DUTY OFFICERS (RMN)

General Duty Officers (RMN) are individuals who perform the main military and management functions. The rank classification of general duty officers comprises Cadet, Midshipman, Acting Sub-Lieutenant, Sub-Lieutenant, Lieutenant, Lieutenant Commander, Commander, Captain, First Admiral, Rear Admiral, Vice-Admiral and Admiral.

Occupations in this minor group are classified into the following unit groups:

0211 GENERAL DUTY OFFICERS (RMT)

UNIT GROUP 0211 GENERAL DUTY OFFICERS (RMN)

General Duty Officers (RMN) are responsible for planning, training, monitoring and supervising activities to ensure the readiness of the Naval Fleet in the face of surface and sub-surface

threats.

Tasks include:
a) updating knowledge on maritime warfare technology in line with the development of fleet strength;
b) ensuring that the subordinates acquire the latest skills and knowledge on technology development of assets;
c) ensuring that all MA assets are well maintained and can be deployed at any time;
d) training subordinate personnel on warfare strategies and knowledge;
e) coordinating needs to assist the public authorities in maintaining public order; and
f) planning to enhance fleet capability to ensure a credible and relevant navy.

Occupations classified here: (refer to index; unit group 0211)

0211-01	Executive Officer
0211-02	Technical Officer
0211-03	Supply Officer

MINOR GROUP 022 PERSONNEL OF OTHER RANKS (RMN)

Personnel of Other Ranks (RMN) assist superiors in ensuring the security of the country's waters. In addition, they must ensure that the mission the Naval Fleet has been assigned is successfully executed. The ranking classification of personnel of other ranks comprises Recruit, Ordinary-COD, Junior Able Rate, Able Rate, Leading Rate, Petty Officer, Chief Petty Officer, Warrant Officer II and Warrant Officer I.

Occupations in this minor group are classified into the following unit groups:

0221 PERSONNEL OF OTHER RANKS (RMN)

UNIT GROUP 0221 PERSONNEL OF OTHER RANKS (RMN)

Personnel of Other Ranks (RMN) comprise sailors and administrative and management staff who provide support to the navy as a whole. All members play their roles and functions based on their area of expertise in their respective fields.

Tasks include:
a) protecting all economic activities at sea, including exploration of oil, mineral and fishery resources;
b) facilitating the enforcement of maritime law in the territorial waters and the EEZ in times of war and peace;
c) helping to control strategic choke points;
d) helping to combat pirates, intrusion of foreign elements and entry of illegal immigrants; and
e) acquiring a deeper knowledge of hydrographic surveying/oceanography to assist in carrying out research covering all aspects of hydrography.

Occupation classified here: (refer to index; unit group 0221)

0221-01	Member of Surface Warfare
0221-02	Member of Submarine Warfare (Weapon)
0221-03	Member of Submarine Warfare (Control)
0221-04	Member of Warfare Tactical Plotters
0221-05	Member of Naval Provost
0221-06	Diver
0221-07	Member of Hydrography
0221-08	Member of Communications
0221-09	Member of Physical Trainers
0221-10	Member of Administration and Finance
0221-11	Member of Logistics Technicians
0221-12	Member of Navy Cooks
0221-13	Member of Officers' Mess Personnel
0221-14	Member of the Brass Band

0221-15	Member of Propulsion Marine Technicians
0221-16	Member of the Srimala Marine Technician
0221-17	Member of Power and Ordinance Electrical Technicians
0221-18	Member of Electrical and Radio Radar Technicians

SUB MAJOR 03 ROYAL MALAYSIAN AIR FORCE (RMAF)

The **Royal Malaysian Air Force (RMAF)** is responsible for defending the sovereignty and integrity of Malaysian airspace and interests through the effective use of air power. The overall goal of the RMAF is to provide, operate and mobilise the air force to remain ready at all times and to display air power in order to preserve and protect the interests of the country. In addition, the air force also helps the public authorities in restoring and maintaining public order, enforcing airspace law and acting against external or internal threats.

Occupations in this minor group are classified in to the following unit groups:

031 GENERAL DUTY OFFICERS (RMAF)
032 PERSONNEL OF OTHER RANKS (RMAF)

MINOR GROUP 031 GENERAL DUTY OFFICERS (RMAF)

General Duty Officers (RMAF) are individuals who perform key functions in the service of the Royal Malaysian Air Force. This group is divided into branches that take front-line combat positions during wartime such as pilot, navigator, engineer, weapon system operator and others, while the support operations consist of officers who manage the logistics and administration. The ranking of general duty officers in the RMAF comprises Second Lieutenant, RMAF (Lt M TUDM), Lieutenant, RMAF (Lt TUDM), Captain, RMAF (Kapt TUDM), Major, RMAF (Mej TUDM), Lieutenant Colonel, RMAF (Lt Kol TUDM), Colonel, RMAF (Kol TUDM), Brigadier General, RMAF (Brig Jen TUDM), Major General, RMAF (Maj Jen TUDM), Lieutenant General, RMAF (Lt Jen TUDM) and General, RMAF (Jen TUDM).

Occupations in this minor group are classified into the following unit groups:

0311 GENERAL DUTY OFFICERS (RMAF)

UNIT GROUP 0311 GENERAL DUTY OFFICERS (RMAF)

General Duty Officers (RMAF) are responsible for planning, training, monitoring and supervising to ensure the sovereignty and security of the country's airspace are protected from intrusion by foreign elements.

Tasks include:
a) planning operational assignments at home and abroad;
b) ensuring that the airspace is secure and safe from external threats;
c) managing the logistics and assets of the Royal Malaysian Air Force;
d) developing training systems and human resources in order to integrate man and technology;
e) ensuring that RMAF personnel stand ready to face any threats from enemies of the state;
f) ensuring that RMAF assets are well maintained and can be deployed at any time; and
g) planning for and assisting the public authorities in maintaining public order.

Occupations classified here: **(refer to index; unit group 0311)**

0311-01	General Duty Pilot Branch Officer
0311-02	Navigation Branch Officer
0311-03	Engineering Branch Officer
0311-04	Secretariat Branch Officer
0311-05	Material Branch Officer
0311-06	Air Traffic Control Branch Officer
0311-07	Air Defence Control Branch Officer
0311-08	Fire Brigade Branch Officer
0311-09	Flight Engineer Branch Officer
0311-10	Weapon Sensor Branch Officer

MINOR GROUP 032 PERSONNEL OF OTHER RANKS (RMAF)

Personnel of Other Ranks (RMAF) form the backbone of the Royal Malaysian Air Force. The ranking classification of personnel of other ranks in the RMAF comprises Recruit, Aircraftman II, Aircraftman I, Senior Aircraftman, Corporal, Sergeant, Flight Sergeant, Warrant Officer II and Warrant Officer I.

Occupations in this minor group are classified into the following unit groups::

0321 PERSONNEL OF OTHER RANKS (RMAF)

UNIT GROUP 0321 PERSONNEL OF OTHER RANKS (RMAF)

Personnel of Other Ranks (RMAF) consist of crew and administration and management staff to support the organisation and operations of the Royal Malaysian Air Force as a whole. All personnel play their role and functions based on their area of expertise in their respective fields.

Tasks include:

a) helping to control the airspace for peaceful purposes while preventing its use by enemies of the state;
b) assisting in applying pressure to deal with surface threats either on land or in the air;
c) helping to increase strength in the air and on land involving airborne refuelling, surveillance and reconnaissance missions; and
d) helping to carry out operations involving base defence, logistical support and base support.

Occupations classified here: (refer to index; unit group 0321)

0321-01	Aeromech Technician
0321-02	Avionics Technician
0321-03	Aerospace Support Engineering Technician
0321-04	Aviation Information Technology Technician
0321-05	Airframe Technician
0321-06	Engine Technician
0321-07	Electrical Technician
0321-08	Instrument Technician
0321-09	Electron Technician
0321-10	Weapon Technician
0321-11	Aviation Support Equipment Technician
0321-12	Statistical Assistant
0321-13	Surface and Safety Technicians
0321-14	Woodworker Technician
0321-15	Air Quartermaster
0321-16	Stewardess
0321-17	Air Surveillance Technician
0321-18	Air Traffic Control Assistant
0321-19	Fire Brigade
0321-20	Catalog (Meterial)
0321-21	Driver
0321-22	Administrative Assistant
0321-23	Provost
0321-24	Physical Trainer
0321-25	Brass Band

SYSTEMATICAL INDEX

MASCO 2020	MASCO 2013	JOB TITLE
1		**MANAGERS**
1111		**LEGISLATORS**
1111-01	1111-01	Prime Minister
1111-02	1111-02	Deputy Prime Minister
1111-03	1111-03	Minister
1111-04	1111-04	Deputy Minister
1111-05	1111-05	Members of Parliament
1111-06	1111-06	Chief Minister
1111-07	1111-07	State Exco
1111-08	1111-08	Member of the State Legislative Assembly
1111-09	1111-09	Deputy Chief Minister
1111-10	1111-10	Junior Minister
1111-11	1111-11	Menteri Besar
1111-12	1111-12	President of The Senate
1111-13	1111-13	Deputy Presidents of the Senate
1111-14	1111-14	Member of the Senate
1111-15	1111-15	Speaker of the House Representatives
1111-16	1111-16	Deputy Speaker of the House Representatives
1112		**SENIOR GOVERNMENT OFFICIALS**
1112-01	1112-01	The Keeper of the Rulers' Seal
1112-02	1112-02	Chief Secretary to the Government
1112-03	1112-03	Director-General of Public Service
1112-04	1112-04	Attorney General
1112-05	1112-05	Secretary General of Treasury
1112-06	1112-06	Auditor General
1112-07	1112-07	Inspector-General of Police
1112-08	1112-08	Director-General of Health
1112-09	1112-09	Chief of Defence Force
1112-10	1112-10	Accountant General
1112-11	1112-11	Governor
1112-12	1112-12	Director-General of Customs
1112-13	1112-13	Director-General of Fire and Rescue
1112-14	1112-14	Secretary-General of Ministry
1112-15	1112-15	Director-General of Government Department
1112-16	New	Director-General of Regional Government
1112-17	1112-17	Head of Government Department
1112-18	1112-18	Chief Statistician
1112-19	1112-19	Secretary of Commission
1112-20	1112-20	State Secretary
1112-21	New	Deputy State Secretary of Government
1112-22	1112-23	Chief Executive Officer of Statutory Body
1112-23	1112-24	Chief Executive of Statutory Body
1112-24	1112-25	Director-General of Statutory Body
1112-25	1112-26	Director of Statutory Body
1112-26	1112-27	Ambassador
1112-27	1112-28	Consul-General
1112-28	1112-29	High Commissioner of Government
1112-29	1112-30	Secretary of Embassy
1112-30	1112-32	Mayor
1112-31	1112-33	President of Local Authority
1112-32	1112-37	Secretary of the Senate
1112-33	1112-38	Secretary of the House of Representatives
1112-34	1112-39	Police Commissioner
1112-35	1112-40	Chief Administrator Parliament
1112-36	1112-41	Postmaster General
1112-37	New	Deputy Secretary-General, Government Administration
1112-38	New	Head of Division/Section/Unit

MASCO 2020	MASCO 2013	JOB TITLE
1112-39	New	Vice Admiral Maritime
1112-40	New	Rear Admiral Maritime
1112-41	New	Deputy Inspector General of Police
1112-42	New	Deputy Commissioner of Police
1112-43	New	Attache
1113		**TRADITIONAL CHIEFS AND HEADS OF VILLAGE**
1113-01	1113-01	Headman Grade NP29
1113-02	1113-02	Demang
1113-03	1113-03	Penggawa
1113-04	1113-04	Village Head
1113-05	1113-05	Tok Sidang
1113-06	1113-06	Native Chief
1113-07	1113-07	Tok Batin
1113-08	1113-08	Kapitan
1113-09	1113-09	Tuai Rumah
1113-10	1113-10	Traditional Chief
1113-11	1113-11	New Village Head
1113-12	1113-12	Undang
1113-13	1113-13	Luak
1113-14	1113-14	Perut
1113-15	1113-15	Buapak
1113-16	1113-16	Orang Besar Berempat
1113-17	1113-17	Orang Besar Berlapan
1113-18	1113-18	Orang Besar Berenam Belas
1113-19	1113-19	Orang Besar Bertiga Puluh Dua
1114		**SENIOR OFFICIALS OF SPECIAL – INTEREST ORGANIZATIONS**
1114-01	1114-01	President of Political Party
1114-02	1114-02	President of Employers' Federation
1114-03	1114-03	President of Trades Union Congress
1114-04	1114-04	President of Congress of Union of Employees in the Public And Civil Services
1114-05	1114-05	Secretary-General, Special Interest Organization
1114-06	1114-06	Secretary-General, Red Crescent Organization
1114-07	1114-07	Secretary-General, Human Rights Organization
1114-08	1114-08	Secretary-General, Humanitarian Organization
1114-09	1114-09	Secretary-General, Red Cross Organization
1114-10	1114-10	Secretary-General, Environmental Protection Organization
1114-11	1114-11	Secretary-General, Wildlife Protection Organization
1114-12	1114-12	Senior Officials of Special Interest Organization
1114-13	1114-13	Senior Officials of Humanitarian Organization
1121		**MANAGING DIRECTORS AND CHIEF EXECUTIVES**
1121-01	1121-01	Chief Executive Officer
1121-02	1121-02	Chief Operating Officer
1121-03	1121-22	Chief Legal Officer
1121-04	New	Chief Technical Officer
1121-05	1121-03	Executive Director
1121-06	1121-04	Company Director
1121-07	1121-05	Deputy Executive Director
1121-08	1121-06	Managing Director
1121-09	1121-07	Enterprise Director
1121-10	1121-08	Enterprise Chairman
1121-11	1121-09	Airport Manager
1121-12	1121-10	Harbour Manager
1121-13	1121-11	Radio and Television Manager, Broadcasting,
1121-14	1121-12	Radio & Television Manager, Programme
1121-15	1121-13	Director-General of Enterprise
1121-16	1121-14	Chief Executive of Organization

MASCO 2020	MASCO 2013	JOB TITLE
1121-17	1121-15	Director-General of Organization
1121-18	1121-16	Managing-Director of Organization
1121-19	1121-17	Director of Organization
1121-20	1121-18	Chairperson of Organization
1121-21	1121-19	President of Organization
1121-22	1121-20	Manager
1121-23	1121-21	General Manager
1121-24	1323-04	Operations Manager
1121-25	1121-24	Director
1121-26	1121-25	Administrator
1121-27	1121-26	President
1121-28	New	Technical Manager
1121-29	New	Manager Grade P2
1121-30	New	Senior Manager Grade P1
1121-31	New	Assistant Manager Grade P3
1121-32	New	Head of Operation
1121-33	New	Assistant Manager
1121-34	New	Assistant Chief Operating Officer
1211		**FINANCE MANAGERS**
1211-01	1211-06	Chief Financial Officer (CFO)
1211-02	1211-01	Finance Manager
1211-03	1211-02	Account Manager
1211-04	1211-03	Budget Manager
1211-05	1211-04	Audit Manager
1211-06	1211-05	Audit and Risk Management Manager
1211-07	1211-07	Credit Manager
1211-08	1211-08	Insurance Manager
1211-09	1211-09	Fund Manager
1211-10	1211-10	Treasury Manager
1211-11	1211-11	Financial and Institution Manager
1211-12	1211-12	Expenditure Manager
1211-13	1211-13	Transaction Monitoring Manager
1211-14	New	Tax Manager
1211-15	New	Claim Manager
1211-16	New	Finance Director
1211-17	New	Chief Financial Controller
1211-18	New	Technical Manager (Accounting)
1211-19	New	Risk Manager
1211-20	New	Head of Procurement
1211-21	New	Procurement Manager
1211-22	New	Risk Modelling Manager
1211-23	New	Actuarial Valuation Manager
1211-24	New	Bidding Manager
1211-25	New	Energy Audit Manager
1211-26	New	Energy Audit Assistant Manager
1212		**HUMAN RESOURCE MANAGERS**
1212-01	New	Chief Human Resources Officer
1212-02	1212-01	Human Resource Manager
1212-03	1212-02	Training Manager
1212-04	1212-03	Industrial Relations Manager
1212-05	1212-04	Occupational Safety and Health Manager
1212-06	1212-05	Personnel Manager
1212-07	1212-06	Recruitment Manager
1212-08	1212-07	Occupational Safety Manager
1212-09	1212-08	Learning and Organization Development Manager
1212-10	1212-09	Compensation and Benefits Manager
1212-11	1212-10	Talent and Organization Performance Manager

MASCO 2020	MASCO 2013	JOB TITLE
1212-12	New	Training Manager, Halal Industry
1212-13	New	Health, Safety, Environment & Quality Manager
1213		**POLICY AND PLANNING MANAGERS**
1213-01	1213-01	Policy and Planning Manager
1213-02	1213-02	Strategic Planning Manager
1213-03	1213-03	Corporate Planning Manager
1213-04	1213-04	Policy and Research Manager
1213-05	New	Project Planning Manager
1213-06	New	Project Leader
1213-07	New	Programme Manager
1213-08	New	Regulatory Affairs Manager
1213-09	New	Planning Manager
1214		**BUSINESS SERVICES MANAGERS**
1214-01	New	Chief Compliance Officer
1214-02	1214-01	Production Manager
1214-03	1214-02	Production and Business Operation Manager
1214-04	1214-03	Business Services Development Manager
1214-05	1214-04	Production Planner
1214-06	1214-05	Production Controller
1214-07	1214-06	Business Development Manager
1214-08	New	Compliance Manager
1214-09	New	Fashion and Garment Manager
1214-10	New	Halal Compliance Manager
1214-11	New	Supply Chain Manager
1214-12	New	Business and Product Development Manager
1214-13	New	Sustainability Manager
1214-14	1323-05	Project Manager
1214-15	New	Assistant Project Manager
1214-16	New	Technology Manager
1215		**ADMINISTRATIVE MANAGERS**
1215-01	1215-01	Administrative Manager
1215-02	1215-02	Administrative Services Manager
1215-03	New	Asset Development Lead
1215-04	1219-04	Infrastructure Manager
1215-05	1219-05	Corporate Services Manager
1215-06	New	Head of Corporate Communications
1216		**QUALITY MANAGERS**
1216-01	1219-02	Quality Control Manager
1216-02	1219-03	Quality Assurance Manager
1216-03	New	Quality Assurance Manager, Halal Food Manufacturing
1216-04	New	Quality Assurance Manager, Halal Meat Processing
1219		**BUSINESS SERVICES AND ADMINISTRATION MANAGERS NOT ELSEWHERE CLASSIFIED**
1221		**SALES AND MARKETING MANAGERS**
1221-01	New	Chief Marketing Officer
1221-02	1221-01	Sales Manager
1221-03	1221-02	Sales and Marketing Manager
1221-04	1221-03	Marketing Manager
1221-05	1221-04	Sales Promotion Manager
1221-06	1221-05	Market Research Manager
1221-07	1221-06	Product Manager
1221-08	1221-07	Brand Manager
1221-09	1221-08	Supermarket Manager
1221-10	1221-09	Shopping Centre Manager

MASCO 2020	MASCO 2013	JOB TITLE
1221-11	New	Outlet Manager
1221-12	New	Channel Partner Manager
1221-13	New	Sales Director
1221-14	New	Branch Manager
1221-15	New	Assistant Branch Manager
1222		**ADVERTISING AND PUBLIC RELATIONS MANAGERS**
1222-01	1222-01	Advertising Manager
1222-02	1222-02	General Affairs Manager
1222-03	1222-03	Communications Manager
1222-04	1222-04	Public Relations Manager
1222-05	1222-05	Display Manager
1222-06	1222-06	Customer Service Manager
1222-07	1222-07	Contact Centre Manager
1222-08	1222-08	Call Centre Manager
1222-09	1222-09	Call Centre Operation Manager
1222-10	New	Contact Centre Team Leader Manager
1222-11	New	Team Leader
1222-12	New	Customer Relationship Manager
1222-13	New	Social Media Manager
1222-14	New	Tour Manager
1222-15	New	Event Manager
1223		**RESEARCH AND DEVELOPMENT MANAGERS**
1223-01	1223-01	Research and Development Manager
1223-02	1223-02	Product Development Manager
1223-03	1223-03	Research Manager
1223-04	New	Research and Development Manager, Halal Food Manufacturing
1223-05	New	Research and Development Manager, Halal Industry
1311		**AGRICULTURAL, FORESTRY AND LIVESTOCK PRODUCTION MANAGERS**
1311-01	New	Park/Estate Manager Grade G41
1311-02	1311-02	Forestry Manager
1311-03	1311-03	Plantation Manager
1311-04	1311-04	Horticulture Manager
1311-05	New	Production and Operation Manager, Agricultural
1311-06	1311-06	Agricultural Manager
1311-07	New	Production and Operation Manager, Livestock
1311-08	1311-08	Livestock Manager
1311-09	1311-09	Estate Manager
1311-10	New	Production and Operation Manager, Forestry
1311-11	New	Veterinary Manager
1311-12	New	Manager, Halal Slaughterhouse
1311-13	New	Manager, Halal Livestock Production
1311-14	New	Field Manager, Grass
1311-15	New	Hatchery Manager
1311-16	New	Natural Science Manager
1312		**AQUACULTURE AND FISHERIES PRODUCTION MANAGERS**
1312-01	1312-01	Fishery Manager
1312-02	1312-02	Production and Operation Manager, Fishery
1312-03	1312-03	Aquaculture Production Manager
1312-04	1312-04	Fishing Operations Manager
1312-05	1312-05	Trawler Manager
1321		**MANUFACTURING MANAGERS**
1321-01	1321-01	Manufacturing Manager
1321-02	1321-02	Production and Operation Manager, Manufacturing
1321-03	1321-03	Factory Manager

MASCO 2020	MASCO 2013	JOB TITLE
1321-04	New	Electrical Manager
1321-05	New	Energy Manager
1321-06	1321-04	Manufacturer
1321-07	New	Production Manager, Food Processing
1321-08	New	Ship Hull Manager
1321-09	New	Mechanical Manager
1321-10	New	Welding Manager
1321-11	New	Oil Mill Manager
1321-12	New	Manager, Halal Food Manufacturing
1321-13	New	Production Manager, Halal Meat Processing
1321-14	New	Maintenance Manager
1321-15	New	Biomass Energy Generation Plant (BEGP) Manager
1321-16	New	Biomass Energy Generation Plant (BEGP) Assistant Manager
1321-17	New	Landfill Gas Plant Operation Manager
1321-18	New	Landfill Gas Plant Manager
1321-19	New	Anaerobic Digester Biogas Plant Operation Manager
1321-20	New	Anaerobic Digester Biogas Plant Management
1321-21	1322-07	Photovoltaic Manager
1321-22	New	Wave Energy Producer
1321-23	New	Material Utilization Planner
1321-24	New	Machine and Equipment Utilization Planner
1321-25	New	Manufacturing Operations Manager
1321-26	New	Power Generation Plant Manager
1321-27	New	Power Station Manager
1321-28	New	Production Manager, Chemicals
1321-29	New	Production Manager, Gas Supply
1321-30	New	Production Manager, Oil Refinery
1321-31	New	Production Manager, Petroleum Refinery
1321-32	New	Production Manager, Power Generation
1321-33	1619-02	Design Manager
1321-34	New	Biofuel Plant Manager
1322		**MINING MANAGERS**
1322-01	1322-01	Production and Operation Manager, Mine
1322-02	1322-02	Production and Operation Manager, Quarry
1322-03	1322-03	Production and Operation Manager, Oil and Gas Extraction
1322-04	1322-04	Oil and Gas Extraction Manager
1322-05	1322-05	Mining Manager
1322-06	1322-06	Quarry Manager
1322-07	New	Offshore Installation Manager
1322-08	New	Green Technology Fuel Production Manager
1322-09	New	Production Controller, Mining
1322-10	New	Manager, Metallurgy
1322-11	New	Manager, Offshore Installation: Oil or Gas
1322-12	New	Plant Manager, Mining
1322-13	New	Field Service Mine Manager
1323		**CONSTRUCTION MANAGERS**
1323-01	1323-01	Construction Manager
1323-02	1323-02	Production and Operation Manager, Construction
1323-03	1323-03	Construction Contract Manager
1323-04	1323-04	Construction Operation Manager
1323-05	1323-05	Construction Project Manager
1323-06	1323-06	Construction Site Manager
1323-07	1323-07	Construction Duty Manager
1323-08	1323-08	Construction Project Builder
1323-09	New	Structure and Construction Manager
1323-10	New	Building and Architecture Manager
1323-11	New	Land Surveyor Manager

MASCO 2020	MASCO 2013	JOB TITLE
1323-12	New	Construction Engineering Director
1323-13	New	Construction Engineering Manager
1323-14	New	Green Building Facilities Maintenance Manager
1323-15	New	Green Building Facilities Maintenance Assistant Manager
1323-16	New	Building Demolition Manager
1323-17	New	Building Demolition Assistant Manager
1323-18	New	Green Builder
1323-19	New	Quantity Surveyor Manager
1323-20	New	Contractor Construction
1323-21	New	Head of Architect
1324		**SUPPLY, DISTRIBUTION AND RELATED MANAGERS**
1324-01	1324-01	Railway Station Master
1324-02	1324-02	Transport Manager
1324-03	1324-03	Supply Manager
1324-04	1324-04	Warehouse Manager
1324-05	1324-13	Logistics Manager
1324-06	1219-01	Purchasing Manager
1324-07	1324-05	Production and Operation Manager, Transport
1324-08	1324-06	Production and Operation Manager, Transport (Pipeline)
1324-09	1324-07	Production and Operation Manager, Transport (Freight Traffic)
1324-10	1324-08	Production and Operation Manager, Transport (Passenger Traffic)
1324-11	1324-09	Distribution Manager
1324-12	1324-10	Production and Operation Manager, Storage
1324-13	1324-11	Storage Manager
1324-14	1324-12	Shipping Manager
1324-15	New	Piping System Manager
1324-16	New	Manager, Halal Logistics Operation
1324-17	New	Material Control Manager
1324-18	New	Material Control Assistant Manager
1324-19	New	Electric Car Maintenance Manager
1324-20	New	Natural Gas Vehicle Maintenance Manager
1324-21	New	Natural Gas Vehicle Maintenance Assistant Manager
1324-22	New	Fuel Cell Vehicle Maintenance Manager
1324-23	New	Purchasing Manager, Halal Meat Processing
1324-24	New	Unmanned Aerial Vehicle Manager (UAV)
1411		**HOTEL AND HOMESTAY MANAGERS**
1411-01	1411-01	Hotel Manager
1411-02	1411-02	Hostel Manager Grade N41
1411-03	1411-03	Hostel Manager
1411-04	1411-04	Motel Manager
1411-05	1411-06	Production and Operation Manager, Hotel
1411-06	1411-07	Homestay Manager
1411-07	1411-08	Guest-House Manager
1411-08	1411-09	Budget Hotel Manager
1411-09	1411-10	Front Desk Manager
1411-10	1411-11	Front Office Manager
1411-11	1411-12	Food and Beverage Services Manager
1411-12	1411-13	Resort Manager
1411-13	1411-14	Accommodation Manager
1411-14	New	Food Handling Manager
1411-15	New	Event Hotel Manager
1412		**RESTAURANT MANAGERS**
1412-01	1412-01	Restaurant Manager
1412-02	1412-02	Bar Manager
1412-03	1412-03	Cafe Manager
1412-04	1412-04	Canteen Manager

MASCO 2020	MASCO 2013	JOB TITLE
1412-05	1412-05	Cafe, Bar and Snack-Bar Manager
1412-06	1412-06	Catering Manager
1412-07	1412-07	Production and Operation Manager, Restaurant
1412-08	1412-08	Self-Service Restaurant Manager
1412-09	1412-09	Discotheque Manager
1412-10	1412-10	Refreshment Room Manager
1412-11	New	Tea Shop Manager
1412-15	New	Chef Manager
1421		**RETAIL AND WHOLESALE TRADE MANAGERS**
1421-01	1421-01	Retail Trade Manager
1421-02	1421-02	Production and Operation Manager, Retail Trade
1421-03	1421-04	Wholesaler
1421-04	1421-05	Wholesale Trade Manager
1421-05	1421-06	Retail Trade Manager, Self-Service Store
1421-06	1421-07	Retail Trade Manager, Online-Order Store
1421-07	1421-08	Export Sales Manager
1421-08	1421-09	Production and Operation Manager, Wholesale Trade
1421-09	1421-12	Wholesale Trade Manager, Export
1421-10	1421-13	Wholesale Trade Manager, Import
1421-11	1421-14	Dealer
1421-12	1421-15	Retailer
1421-13	1421-16	Production and Operation Manager, Retail Trade (Store)
1421-14	1421-17	Production and Operation/Retail Trade (Supermarket)
1511		**INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS**
1511-01	1511-09	Chief Information Officer
1511-02	New	Chief data officer
1511-03	New	Chief Information Security Officer
1511-04	1511-02	Chief Information Technology Officer
1511-05	New	Chief Information Technology Architect
1511-06	1511-04	Information Systems Manager
1511-07	1511-05	Information Technology Manager
1511-08	New	Village Community Center Manager
1511-09	New	Production and Operation Manager, Communications
1511-10	1511-06	Computer Services Manager
1511-11	1511-07	Data Processing Manager
1511-12	1511-08	Application Development Manager
1511-13	1511-10	Data Operations Manager
1511-14	1511-11	ICT Development Manager
1511-15	1511-12	Information Systems Director
1511-16	1511-13	Internet Service Provider
1511-17	1511-14	Network Manager
1511-18	1511-15	Animation Director
1511-19	1511-16	Audio Visual Manager
1511-20	1511-17	Database Manager
1511-21	1511-18	Computer Security Manager
1511-22	1511-19	Information Technology Project Manager
1511-23	1511-20	Information Technology Infrastructure Manager
1511-24	1511-21	Information Technology Programme Manager
1511-25	1511-22	Information Technology Sales Manager
1511-26	1511-23	Information Technology Resource Manager
1511-27	1511-24	Bioinformatics Manager
1511-28	New	Creative Multimedia Manager
1511-29	New	Network Performance Manager
1511-30	New	Network Operations Manager
1511-31	New	Network Deployment Manager
1511-32	New	Information Technology Business Development Manager
1511-33	New	Technology Transformation Manager

MASCO 2020	MASCO 2013	JOB TITLE
1511-34	New	Information Technology Support Manager
1511-35	New	Software Development Manager
1511-36	New	E-Commerce Application Development Manager
1511-37	New	Information Technology Governance Manager
1511-38	New	Building Information Modelling Manager (BIM)
1511-39	New	Risk Manager (Information Technology)
1511-40	New	Director of Cybersecurity
1511-41	New	Security Operation Manager (Information Technology)
1611		**CHILD CARE SERVICES MANAGERS**
1611-01	1611-01	Child Care Centre Manager
1612		**HEALTH SERVICES MANAGERS**
1612-01	1612-01	Medical Services Director
1612-02	1612-02	Director, Nursing
1612-03	1612-03	Health Manager
1612-04	1612-04	Hospital Administrator
1612-05	1612-05	Operation Manager, Health
1612-06	1612-06	Medical Manager (Medical Administration)
1612-07	1612-07	Clinical Director
1612-08	1612-08	Community Health Care Coordinator
1612-09	1612-09	Medical Administrator
1612-10	New	Phytonutrients Manager
1612-11	1612-11	Health Educator
1612-12	New	Director, health facility
1612-13	New	Director, health service
1612-14	New	Administrator, health facility
1612-15	New	Manager, health service
1612-16	New	Matron, hospital
1612-17	New	Chief Clinical Officer
1612-18	New	Chief Public Health Officer
1613		**AGED CARE SERVICES MANAGERS**
1613-01	1613-01	Aged Care Services Manager
1613-02	1613-02	Aged Care Home Director
1613-03	1613-03	Community Aged Care Coordinator
1613-04	New	Aged care facility Manager
1613-05	New	Nursing Home Care Manager
1613-06	New	Aged Care Centre Manager
1613-07	New	Aged Care Hostel Manager
1613-08	New	Matron, Nursing Home
1614		**SOCIAL WELFARE MANAGERS**
1614-01	1614-01	Social Work Manager
1614-02	1614-02	Social Work Operation Manager
1614-03	1614-03	Community Centre Manager
1614-04	1614-04	Welfare Centre Manager
1614-05	1614-05	Family Services Manager
1614-06	1614-06	Housing Services Manager
1615		**EDUCATION MANAGERS**
1615-01	1615-01	Education Manager
1615-02	1615-02	Chancellor
1615-03	1615-03	Principal
1615-04	1615-04	Headteacher
1615-05	1615-05	Operation Manager, Education
1615-06	1615-06	Dean
1615-07	1615-07	Dean of Faculty
1615-08	1615-08	Head Faculty

MASCO 2020	MASCO 2013	JOB TITLE
1615-09	1615-09	Vice Chancellor
1615-10	1615-10	School Director
1615-11	1615-11	Principal, College
1615-12	1615-12	Principal, School
1615-13	1615-13	Principal, University
1615-14	New	Leader, University
1615-15	New	Vocational Training Manager
1616		**FINANCIAL AND INSURANCE SERVICES BRANCH MANAGERS**
1616-01	1616-01	Financial and Insurance Branch Manager
1616-02	1616-02	Financial Branch Manager
1616-03	1616-03	Insurance Branch Manager
1616-04	1616-04	Bank Manager
1616-05	1616-05	Credit Union Manager
1616-06	1616-06	Insurance Agency Manager
1617		**LEGAL MANAGERS**
1617-01	1617-01	Legal and Risk Management Manager
1617-02	1617-02	Legal Manager
1618		**PROPERTY MANAGERS**
1618-01	1618-01	Property Maintenance Manager
1618-02	1618-02	Property Manager
1618-03	1618-03	Real Estate Manager
1619		**PROFESSIONAL SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED**
1621		**SPORT AND RECREATION CENTRE MANAGERS**
1621-01	1621-01	Sports Activity Manager
1621-02	1621-02	Recreation Manager
1621-03	1621-03	Travel Agency Manager
1621-04	1621-04	Park Manager
1621-05	1621-05	Sports Manager
1621-06	1621-06	Environmental Manager
1621-07	1621-07	Casino Manager
1621-08	1621-08	Club Manager
1621-09	1621-09	Racecourse Manager
1621-10	1621-10	Caravan Park Manager
1621-11	1621-11	Cruise Manager
1621-12	1621-12	Gaming Manager
1621-13	1621-13	Sports Centre Manager
1621-14	1621-14	Stadium Manager
1621-15	1621-15	Sports and Recreation Manager
1621-16	1621-16	Camping Site Manager
1621-17	1621-17	Production and Operation Manager, Stage
1621-18	1621-18	Racing Car Manager
1621-19	New	E-Games Manager
1622		**PERSONAL CARE, CLEANING, AND RELATED SERVICES MANAGERS**
1622-01	1622-01	Personal Care Services Manager
1622-02	1622-02	Cleaning Manager
1622-03	1622-03	Sanitation Manager
1622-04	1622-04	Garbage Disposal System Manager
1622-05	1622-05	Laundering, Dry-Cleaning and Ironing Manager
1622-06	1622-06	Production and Operation Manager, Cleaning
1622-07	1622-07	Production and Operation Manager, Personal Care Services
1622-08	1622-08	Housekeeping Service Manager
1622-09	1622-09	Laundry Manager
1622-10	1622-10	Housekeeping Manager

MASCO 2020	MASCO 2013	JOB TITLE
1622-11	1622-11	Electricity, Water and Sanitation Manager
1622-12	1622-12	Environmental Systems Manager
1622-13	1622-13	Sewerage Manager
1622-14	New	Solid Waste Manager
1622-15	New	Solid Waste Assistant Manager
1622-16	New	Water Manager
1622-17	New	Water Assistant Manager
1622-18	New	Waste Water Manager
1622-19	New	Waste Water Assistant Manager
1622-20	New	Assistant Housekeeping Manager
1622-21	New	Production Manager, Waste Management
1622-22	New	Production Manager, Water Supply and Treatment
1622-23	New	Incineration Plant Manager
1622-24	New	Incineration Plant Assistant Manager
1622-25	New	Car Park Manager
1623		**SECURITY MANAGERS**
1623-01	1623-01	Security Manager
1623-02	1623-02	Security Operation Manager
1623-03	New	Assistant Security Manager
1624		**CULTURAL CENTRE, MUSEUM AND LIBRARY MANAGERS**
1624-01	1624-01	Library Manager
1624-02	1624-02	Museum Manager
1624-03	1624-03	Archives Manager
1624-04	1624-04	Cultural Manager
1624-05	1624-05	Art Gallery Manager
1624-06	1624-06	Correctional Service Manager (Archive)
1624-07	1624-07	Production and Operation Manager, Cultural Activities
1624-08	1624-08	Stage Manager
1624-09	1624-09	Cinema Manager
1624-10	1624-10	Theatre Manager
1624-11	New	Floor Manager (Broadcasting)
1624-12	New	Artist Manager
1629		**OTHER SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED**
2		**PROFESSIONALS**
2111		**PHYSICISTS AND ASTRONOMERS**
2111-01	2111-01	Physicist
2111-02	2111-02	Physicist, Theoretical
2111-03	2111-03	Aerodynamicist
2111-04	2111-04	Ballistician
2111-05	2111-05	Physicist, Ballistics
2111-06	2111-06	Physicist, Hydrodynamics
2111-07	2111-07	Physicist, Solid-State
2111-08	2111-08	Physicist, Mechanics
2111-09	2111-09	Hydrodynamics
2111-10	2111-10	Thermodynamics
2111-11	2111-11	Physicist, Acoustics
2111-12	2111-12	Physicist, Sound
2111-13	2111-13	Physicist, Light
2111-14	2111-14	Physicist, Heat
2111-15	2111-15	Physicist, Medical
2111-16	2111-16	Physicist, Thermodynamics
2111-17	2111-17	Physicist, Electricity and Magnetism
2111-18	2111-18	Physicist, Electronics
2111-19	2111-19	Physicist, Nuclear

MASCO 2020	MASCO 2013	JOB TITLE
2111-20	2111-20	Physicist, Atomic
2111-21	2111-21	Physicist, Molecular
2111-22	2111-22	Astrophysicist
2111-23	2111-23	Astronomer
2111-24	2111-24	Astronomer, Radio
2111-25	2111-25	Physicist, Astronomer
2111-26	2111-26	Cosmologist
2111-27	2111-27	Physicist, Rheology
2111-28	2111-28	Rheologist
2111-29	2111-29	Astronaut
2112		**METEOROLOGISTS AND SEISMOLOGISTS**
2112-01	2112-01	Meteorological Officer Grade C41
2112-02	2112-03	Meteorologist
2112-03	2112-04	Climatologist
2112-04	2112-05	Meteorologist-Climatology
2112-05	2112-06	Meteorologist-Weather Forecasting
2112-06	2112-07	Seismologist
2112-07	2112-08	Weather Forecaster
2112-08	2112-09	Agrometeorologist
2112-09	2112-10	Meteorologist, Marine
2112-10	2112-11	Meteorologist, Environmental
2112-11	2112-12	Meteorologist, Numerical Weather Prediction Modeling
2112-12	2112-13	Climate Service Specialist
2112-13	2112-14	Refrigeration Service Specialist
2112-14	2112-15	Weather Service Specialist
2113		**CHEMISTS**
2113-01	2113-01	Film Lab Officer Grade C41
2113-02	2113-05	Chemist
2113-03	2113-06	Chemist, Rubber
2113-04	2113-07	Chemist, Organic
2113-05	2113-08	Chemist, Inorganic
2113-06	2113-09	Chemist, Glass
2113-07	2113-10	Chemist, Metallurgy
2113-08	2113-11	Chemist, Corrosion
2113-09	2113-12	Chemist, Plastics
2113-10	2113-13	Chemist, Polymer
2113-11	2113-14	Chemist, Physical
2113-12	2113-15	Chemist, Analysis
2113-13	2113-16	Chemist, Research and Development
2113-14	2113-17	Chemist, Water Purification
2113-15	2113-18	Chemist, Detergent
2113-16	2113-19	Chemist, Leather
2113-17	2113-20	Chemist, Paint
2113-18	2113-21	Chemist, Quality Control
2113-19	2113-22	Chemist, Food
2113-20	2113-23	Chemist, Industrial
2113-21	2113-24	Chemist, Petroleum
2113-22	2113-25	Chemist, Dye
2113-23	2113-26	Chemist, Textile
2113-24	2113-27	Chemist, Pharmaceutical
2113-25	2113-28	Chemist, Crystallography
2113-26	2113-29	Chemist, Nuclear
2113-27	2113-30	Seismic Stratigrapher
2113-28	2113-31	Geochemist
2113-29	2113-32	Paleo and Biotratigrapher
2113-30	2113-33	Geological 2D/3D Reservoir Modeller
2113-31	2113-34	Exploration Geologist

MASCO 2020	MASCO 2013	JOB TITLE
2113-32	2113-35	Sedimentologist
2113-33	2113-36	Petrophysicist
2113-34	2113-37	Basin Modeller
2113-35	2113-38	Carbonization Specialist
2113-36	2113-39	Condensation Specialist
2113-37	2113-40	Nickel Plating Specialist
2113-38	2113-41	Anodizing Specialist
2113-39	2145-25	Biodynamic Compost Expert
2113-40	2145-26	Moringa Specialist
2114		**GEOLOGISTS AND GEOPHYSICISTS**
2114-01	2114-06	Geophysicist
2114-02	2114-07	Geologist
2114-03	2114-08	Geologist, Engineering
2114-04	2114-09	Geologist, Mining
2114-05	2114-10	Mineralogist
2114-06	2114-11	Geologist, Oil
2114-07	2114-12	Geologist, Petroleum
2114-08	2114-13	Geologist, Petrology
2114-09	2114-14	Petrologist
2114-10	2114-15	Geophysicist, Oceanography
2114-11	2114-16	Geologist, Marine
2114-12	2114-17	Geologist, Oceanography
2114-13	2114-18	Oceanographer
2114-14	2114-19	Geophysical Oceanographer
2114-15	2114-20	Geological Oceanographer
2114-16	2114-21	Geodesist
2114-17	2114-22	Geophysicist, Geomagnetic
2114-18	2114-23	Geophysicist, Geomorphology
2114-19	2114-24	Geophysicist, Seismology
2114-20	2114-25	Geomagnetician
2114-21	2114-26	Geomorphologies
2114-22	2114-27	Geophysicist, Hydrology
2114-23	2114-28	Hydrogeologist
2114-24	2114-29	Hydrologist
2114-25	2114-30	Geologist, Micropalaeontology
2114-26	2114-31	Geologist, Palaeontology
2114-27	2114-32	Geologist, Stratigraphy
2114-28	2114-33	Palaeontologist
2114-29	2114-34	Stratigraph
2114-30	2114-35	Micropalaeontologist
2114-31	New	Petroleum Geoscientist
2114-32	New	Geoscientist
2114-33	New	Mudlogger
2114-34	New	Well Site Geologist
2114-35	New	Operation Geologist
2114-36	New	Reservoir Geologist
2114-37	New	Structural Geologist
2114-38	New	Geomodeller
2114-39	New	Physical Oceanographer
2114-40	New	Seismic Interpreter
2114-41	New	Geological Specialist
2114-42	New	Geophysical Specialist
2114-43	New	Geoscience Officer Grade C41
2114-44	New	Geomechanic
2114-45	New	Sedementologist
2121		**MATHEMATICIANS, ACTUARIES AND STATISTICIANS**
2121-01	2121-02	Statistician Grade E41

MASCO 2020	MASCO 2013	JOB TITLE
2121-02	2121-04	Mathematician
2121-03	2121-05	Mathematician, Applied Mathematics
2121-04	2121-06	Mathematician, Pure Mathematics
2121-05	2121-07	Mathematician, Actuarial Science
2121-06	2121-08	Statistician, Applied Statistics
2121-07	2121-09	Statistician, Survey
2121-08	2121-10	Biometrician
2121-09	2121-22	Demographer
2121-10	New	Analytical Consultant
2121-11	New	Appointed Actuarie
2121-12	New	Pricing Actuarie
2121-13	New	Valuation Actuarie
2121-14	New	Geomatician
2121-15	New	Metrologist
2131		**BIOLOGISTS, BOTANISTS, ZOOLOGISTS AND RELATED PROFESSIONALS**
2131-01	2131-01	Wildlife Officer Grade G41
2131-02	2131-03	Immunologist
2131-03	2131-04	Microbiologist
2131-04	2131-05	Serologist
2131-05	2131-06	Virologist
2131-06	2131-07	Histologist
2131-07	2131-08	Histologist, Plant
2131-08	2131-09	Biologist
2131-09	2131-10	Biologist, Fresh Water
2131-10	2131-11	Biologist, Aquatic
2131-11	2131-12	Biologist, Marine
2131-12	2131-13	Biotechnologist
2131-13	2131-14	Hydrobiologist
2131-14	2131-15	Taxonomist
2131-15	2131-16	Taxonomist, Plant
2131-16	2131-17	Taxonomist, Animals
2131-17	2131-18	Cystologist
2131-18	2131-19	Cystologist, Plant
2131-19	2131-20	Cystologist, Animal
2131-20	2131-21	Botanist
2131-21	2131-22	Botanist, Economic
2131-22	2131-23	Botanist, Histology
2131-23	2131-24	Botanist, Mycology
2131-24	2131-25	Botanist, Taxonomy
2131-25	2131-26	Botanist, Soil
2131-26	2131-27	Botanist, Ecology
2131-27	2131-28	Geneticist
2131-28	2131-29	Geneticist, Plant
2131-29	2131-30	Geneticist, Animal
2131-30	2131-31	Mycologist
2131-31	2131-32	Engineer, Genetics
2131-32	2131-33	Herpetologist
2131-33	2131-34	Ichthyologist
2131-34	2131-35	Mammalogist
2131-35	2131-36	Ornithologist
2131-36	2131-37	Parasitologist
2131-37	2131-38	Pisciculturist
2131-38	2131-39	Fish Culturist
2131-39	2131-40	Zoologist
2131-40	2131-41	Zoologist, Embryology
2131-41	2131-42	Zoologist, Entomology
2131-42	2131-43	Zoologist, Histology
2131-43	2131-44	Zoologist, Ichthyology

MASCO 2020	MASCO 2013	JOB TITLE
2131-44	2131-45	Zoologist, Mammalogy
2131-45	2131-46	Zoologist, Ornithology
2131-46	2131-47	Zoologist, Parasitology
2131-47	2131-48	Zoologist, Pisciculture
2131-48	2131-49	Zoologist, Taxonomy
2131-49	2131-50	Zoologist, Ecology
2131-50	2131-51	Entomologist
2131-51	2131-52	Ecologist
2131-52	2131-53	Ecologist, Animal
2131-53	2131-54	Ecologist, Plant
2131-54	2131-55	Ecologist, Social
2131-55	2131-56	Bacteriologist
2131-56	2131-57	Bacteriologist, Pharmaceutical
2131-57	2131-58	Bacteriologist, Food
2131-58	2131-59	Bacteriologist, Molecular
2131-59	2131-60	Bacteriologist, Fishery
2131-60	2131-61	Bacteriologist, Industrial
2131-61	2131-62	Bacteriologist, Agricultural
2131-62	2131-63	Bacteriologist, Medical
2131-63	2131-64	Bacteriologist, Soil
2131-64	2131-65	Bacteriologist, Dairy
2131-65	2131-66	Bacteriologist, Veterinary
2131-66	2131-67	Technologist, Green Technology
2131-67	2131-68	Animal Behaviourist
2131-68	New	Aqua and Marine Reproduction Technologist
2131-69	New	Arborist
2132		**FARMING, FORESTRY, PLANTATION AND FISHERIES ADVISERS**
2132-01	2132-01	Fisheries Officer Grade G41
2132-02	2132-02	Conservator of Forests Grade G41
2132-03	2132-03	Agricultural Officer Grade G41
2132-04	2132-04	Land Planning Officer Grade G41
2132-05	2132-09	Agricultural Officer
2132-06	2132-10	Planting Adviser
2132-07	2132-11	Farming Adviser
2132-08	2132-12	Agricultural Adviser
2132-09	2132-13	Farm Demonstrator
2132-10	2132-14	Forestry Officer
2132-11	2132-15	Forestry Conservator
2132-12	2132-16	Forestry Adviser
2132-13	New	Agricultural Executive
2132-14	New	Aquaculture Executive
2132-15	New	Forest Officer
2133		**ENVIRONMENTAL PROTECTION PROFESSIONALS**
2133-01	2133-01	Environmental Control Officer Grade C41
2133-02	2133-02	Agronomist
2133-03	2133-03	Crop Research Scientist
2133-04	2133-04	Agricultural Scientist
2133-05	2133-05	Floriculturist
2133-06	2133-06	Horticulturist
2133-07	2133-07	Olericulturist
2133-08	2133-08	Pomologist
2133-09	2133-09	Wood Anatomist
2133-10	2133-10	Arboriculturist
2133-11	2133-11	Soil Conservationist
2133-12	2133-12	Forestry Scientist
2133-13	2133-13	Soil Scientist
2133-14	2133-14	Silviculturist

MASCO 2020	MASCO 2013	JOB TITLE
2133-15	2133-15	Wood Analyst
2133-16	2133-17	Animal Scientist
2133-17	2133-18	Environmental Research Scientist
2133-18	2133-19	Conservation Officer
2133-19	2133-20	Conservation Scientist
2133-20	2133-21	Environmental Adviser
2133-21	2133-22	Environmental Auditor
2133-22	2133-23	Environmental Consultant
2133-23	New	Natural Scientist
2134		**PHARMACOLOGISTS, PATHOLOGISTS AND RELATED PROFESSIONALS**
2134-01	2134-01	Anatomist
2134-02	2134-02	Biochemist
2134-03	2134-03	Biochemist, Enzymes
2134-04	2134-04	Biochemist, Clinical
2134-05	2134-05	Biochemist, Proteins
2134-06	2134-06	Biochemist, Steroids
2134-07	2134-07	Chemist, Biological
2134-08	2134-08	Biophysicist
2134-09	2134-09	Endocrinologists
2134-10	2134-10	Physiologists
2134-11	2134-11	Physiologist, Endocrinology
2134-12	2134-12	Physiologist, Epidemiology
2134-13	2134-13	Physiologist, Animal
2134-14	2134-14	Physiologist, Neurology
2134-15	2134-15	Physiologist, Plant
2134-16	2134-16	Pharmacologists
2134-17	2134-17	Pharmacologist, Toxicology
2134-18	2134-18	Pharmacologist, Veterinary
2134-19	2134-19	Toxicologist
2134-20	2134-20	Histopathologist
2134-21	2134-21	Neuropathologist
2134-22	2134-22	Pathologist
2134-23	2134-23	Pathologist, Forensic
2134-24	2134-24	Pathologist, Animal
2134-25	2134-25	Pathologist, Histopathology
2134-26	2134-26	Pathologist, Clinical
2134-27	2134-27	Pathologist, Neuropathology
2134-28	2134-28	Pathologist, Surgical
2134-29	2134-29	Pathologist, Medical
2134-30	2134-30	Pathologist, Plant
2134-31	2134-31	Pathologist, Veterinary
2134-32	2134-32	Epidemiologist
2134-33	New	Bio-Fermentation Specialist
2134-34	2134-34	Research and Development Pharmacist
2134-35	2134-35	Bee Cultivation Specialist
2134-36	New	Embryologist
2141		**INDUSTRIAL AND PRODUCTION ENGINEERS**
2141-01	2141-01	Automation Engineer
2141-02	2141-02	Robotics Engineer
2141-03	2141-03	Industrial Engineer
2141-04	2141-04	Production Engineer
2141-05	2141-05	Industrial Layout Engineer
2141-06	2141-06	Communication Analyst
2141-07	2141-07	Systems Analyst (Except Computers)
2141-08	2141-08	Organization and Methods Engineer
2141-09	2141-09	Planning Engineer
2141-10	2141-10	Systems Engineer (Except Computers)

MASCO 2020	MASCO 2013	JOB TITLE
2141-11	2141-11	Systems Design Engineer (Except Computers)
2141-12	2141-12	Work Study Engineer
2141-13	2141-13	Industrial Efficiency Engineer
2141-14	2141-14	Time and Motion Engineer
2141-15	2141-15	Cost Evaluation Engineer
2141-16	2141-16	Leather Technologist
2141-17	2141-17	Glass Technologist
2141-18	2141-18	Packaging Technologist
2141-19	2141-19	Printing Technologist
2141-20	2141-20	Ceramics Technologist
2141-21	2141-21	Cement Technologist
2141-22	2141-22	Textile Technologist
2141-23	2141-23	Wood Technologist
2141-24	2141-24	Plant Engineer
2141-25	2141-25	Package Design Engineer
2141-26	New	Analog Integrated Circuit (IC) Package Design Engineer
2141-27	2141-29	Furniture Upholstery Technologist
2141-28	New	Carving Technologist
2141-29	New	Process Development Engineer
2141-30	New	Packaging Engineer
2141-31	New	Facilities Competent Engineer
2141-32	New	Reliability Engineer
2141-33	New	Chief Package Modelling Engineer
2141-34	New	Chief Reliability Engineer
2141-35	New	Weaving Technologist
2141-36	New	Physical Design Engineer
2141-37	2152-26	Automation Design Engineer
2141-38	New	Robotic Process Automation (RPA) Expert
2141-39	New	Business Process Automation Expert
2141-40	New	Techno Functional Consultant
2141-41	2149-15	Engineering Store Executive
2141-42	New	Photonic Engineer
2141-43	New	Preventive Maintenance Engineer (Facility)
2141-44	New	SCADA Engineer
2141-45	New	Unit Process Design Engineer (UPD)
2141-46	New	Plasma Enhance Chemical Vapour Deposition Engineer
2141-47	New	Sputter Process Engineer
2141-48	New	Module Characterisation Engineer
2141-49	New	Sputter Equipment Engineer
2141-50	New	Method & Process Engineer
2141-51	New	Survey Engineer
2141-52	2434-06	Product Engineer
2141-53	New	Engineering Coordinator
2141-54	New	Green Technology Infrastructure Facilitator
2141-55	New	Energy Engineer
2141-56	New	Renewable Energy Engineer
2141-57	New	Environment Engineer
2141-58	New	Wind Energy Engineer
2141-59	New	Energy Auditor
2141-60	New	Industry 4.0 Technologist
2141-61	New	Special Tooling (Mould) Engineer
2141-62	New	Special Tooling (Die) Engineer
2141-63	New	Manufacturing Engineer
2141-64	New	Oil Mill Engineer
2141-65	New	Procurement Engineer
2141-66	New	Procurement Manufacturing Engineer
2141-67	2149-09	Project Engineer
2141-68	2149-10	Process Engineer
2141-69	2149-19	Materials Engineer

MASCO 2020	MASCO 2013	JOB TITLE
2141-70	New	Process Simulation Engineer
2141-71	New	Process Control and Instrument Engineer
2141-72	New	Operations Commissioning Engineer
2142		**CIVIL ENGINEERS**
2142-01	2142-02	Executive Officer (Engineering) Grade 41
2142-02	2142-03	Engineer Grade J41
2142-03	2142-07	Executive Officer (Engineering) Grade L5
2142-04	2142-10	Engineer
2142-05	2142-11	Technologist
2142-06	2142-12	Civil Engineering Technologist
2142-07	2142-13	Civil Engineer
2142-08	2142-14	Site Construction Engineer
2142-09	2142-15	Technologist, Building Materials
2142-10	2142-16	Civil Engineer, Construction
2142-11	2142-17	Civil Engineer, Aerodome Construction
2142-12	2142-18	Civil Engineer, Building Construction
2142-13	2142-19	Civil Engineer, Dock and Harbour Construction
2142-14	2142-20	Civil Engineer, Tower Construction
2142-15	2142-21	Civil Engineer, Chimney Construction
2142-16	2142-22	Civil Engineer, Structural
2142-17	2142-23	Civil Engineer, Building Structure
2142-18	2142-24	Civil Engineer, Highways and Road
2142-19	2142-25	Civil Engineer, Road Construction
2142-20	2142-26	Civil Engineer, Railway Construction
2142-21	2142-27	Civil Engineer, Geothechnic
2142-22	2142-28	Civil Engineer, Bridge Construction
2142-23	2142-29	Civil Engineer, Tunnel Construction
2142-24	2142-30	Civil Engineer, Soil Mechanics
2142-25	2142-31	Civil Engineer, Irrigation
2142-26	2142-32	Civil Engineer, Dredging
2142-27	2142-33	Civil Engineer, Hydraulics
2142-28	2142-34	Civil Engineer, Hydrology
2142-29	2142-35	Civil Engineer, Public Health
2142-30	2142-36	Civil Engineer, Sanitation
2142-31	2142-37	Facilities Engineer
2142-32	2142-38	Maintenance Engineer
2142-33	2142-39	Geotechnical Engineer
2142-34	2142-40	Structural Engineer
2142-35	New	Construction Inspection Engineer
2142-36	New	Drainage Design Engineer
2142-37	New	Facilities Planning Specialists
2142-38	New	Foundation Engineer
2142-39	New	Reliability and Safety Engineer
2142-40	New	Construction Engineer
2142-41	New	Flag Engineer
2142-42	New	Hull and Structural Engineer
2142-43	New	Civil and Structure Design Engineer
2142-44	New	Piping/Gas Oil Hydrotreating Engineer
2142-45	2149-01	Quantity Surveyor Grade J41
2142-46	2149-02	Building Surveyor Grade J41
2142-47	2149-03	Executive Officer (Building Surveyor) Grade 41
2142-48	2149-08	Quantity Surveyor
2142-49	New	Construction Project Engineer
2142-50	New	Construction Process Engineer
2142-51	New	Construction Materials Engineer
2142-52	New	Engineer Grade 23
2142-53	New	Quantity Surveyor Grade 23
2142-54	New	Building Surveyor Grade 23

MASCO 2020	MASCO 2013	JOB TITLE
2142-55	New	Plan and Audit Engineering Design
2143		**ENVIRONMENTAL ENGINEERS**
2143-01	2143-01	Environmental Engineer
2143-02	2143-02	Sewerage and Sanitation Engineer
2143-03	2143-03	Air Pollution Control Engineer
2143-04	2143-04	Environmental Remediation Specialist
2143-05	New	Environmental Analyst
2144		**MECHANICAL ENGINEERS**
2144-01	2144-03	Mechanical Engineering Technologist
2144-02	2144-04	Mechanical Engineer
2144-03	2144-05	Machinery and Tools Industrial Engineer
2144-04	2144-06	Lift Engineer
2144-05	2144-07	Mechanical Engineer, Instruments
2144-06	2144-08	Cryogenic Engineer
2144-07	2144-10	Mechanical Engineer, Nuclear Power
2144-08	2144-11	Heating Ventilation Air-Conditioning and Refrigeration Engineer
2144-09	2144-12	Diesel Engineer
2144-10	2144-13	Engines Engineer
2144-11	2144-14	Jet Engine Engineer
2144-12	2144-15	Locomotive Engine Engineer
2144-13	2144-16	Internal Combustion Engine Engineer
2144-14	2144-17	Mechanical Engineer, Automotive
2144-15	2144-18	Mechanical Engineer, Diesel
2144-16	2144-19	Mechanical Engineer, Motor and Engine
2144-17	2144-20	Mechanical Engineer, Gas Turbine
2144-18	2144-21	Mechanical Engineer, Naval
2144-19	2144-22	Motor Engineer
2144-20	2144-23	Lubrication Engineer
2144-21	2144-24	Steam Engineer
2144-22	2144-25	Gas Turbine Engineer
2144-23	2144-26	Motor-Car Design Engineer
2144-24	2144-27	Welding Technologist
2144-25	2144-28	Mechanical Engineer, Agriculture
2144-26	2144-29	Agricultural Engineer
2144-27	2144-30	Mechanical Engineer, Aerospace
2144-28	2144-31	Mechanical Engineer, Aeronautics
2144-29	2144-32	Thermal Engineer
2144-30	2144-33	Thermal Mechanical Solution Engineer
2144-31	2144-34	Hydraulic Design Engineer
2144-32	2144-35	Microprogramming Engineer
2144-33	2144-36	Aero-Material Component Engineer
2144-34	2144-37	Technology Technical Engineer
2144-35	New	Equipment Engineer
2144-36	New	Welding Engineer
2144-37	New	Instrumentation Engineer
2144-38	New	Mechanical Maintenance Engineer
2144-39	New	Rotating Equipment Engineer
2144-40	New	Operation Engineer
2144-41	New	Platform Superintendents
2144-42	New	Fabrication Engineer
2144-43	New	Engineering Technologist
2144-44	New	Mechanical Technologist
2144-45	New	Metrology Equipment Engineer
2144-46	New	Research and Development Engineers
2144-47	New	Offshore Equipment Engineer
2144-48	New	CNC Machine Engineer (Computer Numerical Control)
2144-49	New	CAD/CAM Engineer (Computer-Aided Design and Manufacturing)

MASCO 2020	MASCO 2013	JOB TITLE
2144-50	New	CAD Automation Engineer (Computer-Aided Design)
2144-51	New	CAD Engineer (Computer-Aided Design)
2144-52	New	Plasma Arc Welding Specialist
2144-53	New	CNC Programmer (Computer Numerical Control)
2144-54	New	Field Service Representative (Mechanical)
2144-55	New	Vechicle Engineer
2144-56	New	Clean Car Engineer
2144-57	New	Industrial Automation Engineer
2144-58	New	Robotic Technologist
2144-59	New	Aerospace Engineer
2144-60	2152-21	Mechatronic Engineer
2144-61	New	Static Engineer
2145		**CHEMICAL ENGINEERS**
2145-01	2145-02	Chemical Engineering Technologist
2145-02	2145-03	Chemical Process Technologist
2145-03	2145-04	Chemical Engineer
2145-04	2145-06	Chemical Process Engineer
2145-05	2145-07	Fuel Technologist
2145-06	2145-08	Paint Technologist
2145-07	2145-09	Paints Engineer
2145-08	2145-10	Varnish Engineer
2145-09	2145-11	Fertilizer Engineer
2145-10	2145-12	Pharmaceutical Products Chemical Engineer
2145-11	2145-13	Alcohol Technologist
2145-12	2145-14	Brewing Technologist
2145-13	2145-16	Food Chemical Engineer
2145-14	2145-17	Fiber Technologist
2145-15	2145-18	Plastics Technologist
2145-16	2145-19	Polymer Technologist
2145-17	2145-20	Rubber Technologist
2145-18	2145-21	Paper Technologist
2145-19	2145-22	Tyre Technologist
2145-20	2145-23	Briquetting Plant Engineer
2145-21	2145-24	Freeze Dried Technologist
2145-22	New	Corrosion Engineer
2145-23	New	Process Control Engineer
2146		**MINING ENGINEERS, METALLURGISTS AND RELATED PROFESSIONALS**
2146-01	2146-01	Mining Engineer
2146-02	2146-02	Metal Mining Engineer
2146-03	2146-03	Mining Coal Engineer
2146-04	2146-04	Non-Metal Mining Engineer
2146-05	2146-05	Diamond Mining Engineer
2146-06	2146-06	Petroleum Mining Engineer
2146-07	2146-07	Natural Gas Mining Engineer
2146-08	2146-08	Metal Testing Engineer
2146-09	2146-09	Metallurgist
2146-10	2146-10	Metallurgist, Radioactive Minerals
2146-11	2146-11	Metallurgist, Assayer
2146-12	2146-12	Metallurgist, Extractive
2146-13	2146-13	Metallurgist, Foundry
2146-14	2146-14	Metallurgist, Physics
2146-15	2146-15	Extractive Technologist
2146-16	2146-16	Assayer
2146-17	2146-17	Petroleum and Natural Gas Engineer
2146-18	2146-18	Petroleum Engineer
2146-19	2146-19	Gas Engineer
2146-20	2146-20	Natural Gas Production and Distribution Engineer

MASCO 2020	MASCO 2013	JOB TITLE
2146-21	2146-21	Casting Engineer
2146-22	New	Drilling Engineer
2146-23	New	Pipeline Engineer
2146-24	New	Marine Section Leader
2146-25	New	Technical Section Leader
2146-26	New	Subsurface Engineer (Petroleum)
2146-27	New	Subsea Engineer
2146-28	New	Integrity Management Engineer
2146-29	New	Completions Engineer
2146-30	New	Enhanced Oil Recovery (EOR) Engineer
2146-31	New	Reservoir Engineer
2146-32	New	Wellsite Engineer (Planning)
2146-33	New	Production Technologist
2146-34	New	Petroleum Economist
2146-35	New	Facilities (Equipment Design) Engineer
2146-36	New	Loss Control Engineer
2146-37	New	Pipeline Corrosion Engineer
2146-38	New	Wellsite Corrosion Engineer
2146-39	New	NDT Engineer (Nondestructive Testing)
2146-40	New	Materials and Metallurgical Engineer
2146-41	New	Hydraulics Engineer
2146-42	New	Water Management Engineer
2146-43	New	Product Design Research and Development Engineer
2146-44	New	Operation Readiness and Assurance (OR&A) Engineer
2146-45	New	Pipeline Mechanical Engineer
2146-46	New	Pipeline Project Engineer
2146-47	New	Pipeline SCADA and Simulations Engineer
2146-48	New	Pipe Stress Engineer
2146-49	New	Blasting Expert
2146-50	New	Radioactive Expert
2146-51	New	Well Engineer
2146-52	New	Well Integrity Engineer
2146-53	New	Field Professional
2146-54	New	Transmission Control Protocol Service Specialist (TCP)
2146-55	New	Mud Engineer
2149		**ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY) NOT ELSEWHERE CLASSIFIED**
2149-01	2149-17	Explosive Ordnance Engineer
2149-02	2149-18	Marine Salvage Engineer
2149-03	New	Nuclear Engineer
2149-04	2144-09	Nuclear Power Engineer
2149-05	2149-21	Safety Engineer
2149-06	2149-22	Industrial Safety Engineer
2149-07	2149-23	Industrial Health and Safety Engineer
2149-08	2149-24	Industrial Health Engineer
2149-09	2149-25	Quality Engineer
2149-10	New	Inspector, Factory and Machinery
2149-11	New	Quality Management System Engineer (QMS)
2149-12	New	Customer Quality Engineer
2149-13	New	Field Service Engineer
2149-14	New	Supplier Quality Engineer
2149-15	New	Chief Customer Quality Engineer
2149-16	2149-11	Quality Assurance Engineer
2149-17	2149-12	Quality Control Engineer
2149-18	2149-14	Research Engineer
2149-19	2149-16	Biomedical Engineer
2149-20	2149-20	Optical Engineer
2149-21	New	Quality Assurance/Quality Control Inspection Engineer (QA/QC)

MASCO 2020	MASCO 2013	JOB TITLE
2149-22	2149-06	Factories and Machinery Inspector Grade J41
2149-23	New	Commissioning Engineer
2151		**ELECTRICAL ENGINEERS**
2151-01	New	Electrical Engineering Technologist
2151-02	2151-04	Electrical Engineer
2151-03	2151-05	Electrical Systems Engineer
2151-04	2151-06	Electrical Testing Engineer
2151-05	2151-07	Electrical Engineer, Electric Power Generation
2151-06	2151-08	Electrical Engineer, High Voltage
2151-07	2151-09	Power Generation Engineer
2151-08	2151-10	Electrical Engineer, Electric Power Distribution
2151-09	2151-11	Electrical Engineer, Electric Power Transmission
2151-10	2151-12	Electrical Engineer, Electric Traction
2151-11	2151-13	Power Distribution and Transmission Engineer
2151-12	2151-14	Electric Power Transmission Engineer
2151-13	2151-15	Electrical Illuminating Engineer
2151-14	2151-16	Electrical Engineer, Electromechanical Equipment
2151-15	2151-17	Voltage Regulator Designer
2151-16	2151-18	Thermal/Optic Specialist LED (Light-Emitting Diode)
2151-17	2151-19	Cell Engineer
2151-18	2151-20	Electrode Cylindrical Engineer
2151-19	2151-21	Electrode Polymer Engineer
2151-20	2151-22	Laser Welding Cylindrical Engineer
2151-21	2151-23	Prismatic Research Engineer
2151-22	2151-24	Electrolyte Engineer
2151-23	New	Electrical Process Engineer
2151-24	New	Embedded System/ Firmware Engineer
2151-25	New	Media Process Engineer
2151-26	New	Integrated Circuit Design Electrical Engineer (IC)
2151-27	New	Radio Frequency Electrical Engineer (RF)
2151-28	New	Wafer Fabrication Electrical Process Engineer
2151-29	New	Test/Measurement Engineer (Electric)
2151-30	New	Research and Development Electrical Engineer (Product Design)
2151-31	New	Electrical Consultant
2151-32	New	Protection Engineer
2151-33	New	Power Supply Design Engineer
2151-34	New	Research and Development Electrical Design Engineer
2151-35	New	Electrical Energy Auditor
2151-36	New	Electrical Superintendent
2152		**ELECTRONIC ENGINEERS**
2152-01	2152-03	Electronics Engineering Technologist
2152-02	2152-04	Electronics Engineer
2152-03	2152-05	Railway Signal Engineer
2152-04	2152-06	Computer Applications Engineer
2152-05	2152-07	Electronics Engineer, Information Engineering
2152-06	2152-08	Electronics Engineer, Computer Hardware Design
2152-07	2152-09	Computer Engineer
2152-08	2152-11	Computer Engineer, Hardware
2152-09	2152-18	Electronics Engineer, Semiconductors
2152-10	2152-19	Semiconductor Engineer
2152-11	2152-20	Electronics Engineer, Instrumentation
2152-12	2152-22	Physical Design Verification Engineer
2152-13	2152-23	Pre-Silicon Validation Engineer
2152-14	2152-27	Printed Circuit Board (PCB) Design Engineer
2152-15	2152-28	Product Characterization Engineer
2152-16	2152-29	Platform Signal Integrity Engineer
2152-17	2152-30	Motherboard Designer

MASCO 2020	MASCO 2013	JOB TITLE
2152-18	2152-31	Board Design Engineer
2152-19	2152-32	Embedded System Board Designer
2152-20	2152-33	Hardware Board Design Engineer
2152-21	2152-34	Personal Computer Motherboard Designer
2152-22	2152-35	Post-Silicon Validation Engineer
2152-23	2152-36	Analog Integrated Circuit Designer (IC)
2152-24	2152-37	Digital Integrated Circuit Designer (IC)
2152-25	2152-38	Layout Integrated Circuit Designer (IC)
2152-26	2152-39	Wirebond Engineer
2152-27	New	Industrial Electronic Engineer
2152-28	New	Radio Frequency Electronic Engineer (RF)
2152-29	New	Wafer Fabrication Engineer
2152-30	New	Integrated Circuit Design Electronic Engineer (IC)
2152-31	New	Wafer Fabrication Electronic Process Engineer
2152-32	New	Test/Measurement Engineer (Electronic)
2152-33	New	Research and Development Electronic Engineer (includes Product Design)
2152-34	New	Semiconductor Packaging Engineer
2152-35	New	Integrated Circuit Designer (IC)
2152-36	New	Integrated Circuit Package Assembly Process Engineer (IC)
2152-37	New	Electronic Component Design Engineer
2152-38	New	Electronic Structural Designer
2152-39	New	Register-transfer Level Designer (RTL)
2152-40	New	Hardware Design Engineer
2152-41	New	Process Computer Control Engineer (PCC)
2153		**TELECOMMUNICATIONS ENGINEERS**
2153-01	2153-01	Telecommunications Engineer
2153-02	2153-02	Telecommunications Engineer, Aerospace
2153-03	2153-03	Telecommunications Engineer, Radar
2153-04	2153-04	Telecommunications Engineer, Signal Systems
2153-05	2153-05	Telecommunications Engineering Technologist
2153-06	2153-06	Telecommunications Engineer, Microwave
2153-07	2153-07	Telecommunications Engineer, Radio
2153-08	2153-08	Telecommunications Engineer, Telephone
2153-09	2153-09	Telecommunications Engineer, Telegraph
2153-10	2153-10	Telecommunications Engineer, Television
2153-11	2153-11	Broadcast Engineer
2153-12	New	Wireless Network Engineer
2153-13	New	Data Network Engineer
2153-14	New	Radio Engineer
2153-15	New	Network Architect/Designer/Planner/Tester
2153-16	New	Radio Optimisation and Capacity Engineer
2153-17	New	Core Network Service Assurance Engineer
2153-18	New	Network Implementation and Construction Engineer
2153-19	New	Network Quality Engineer
2153-20	New	Value-added Services Engineer (VAS)
2153-21	New	Transmission Network Engineer
2153-22	New	Internet Protocol Engineer (IP)
2153-23	New	Network and System Engineer
2153-24	New	Telecommunications Consultant
2153-25	New	Electronic Audio Visual Technology Executive
2153-26	New	Signal Integrity Engineer
2153-27	2152-16	Audio and Video Equipment Engineer
2153-28	2152-17	Sound Systems Engineer
2153-29	New	Audio Designer
2153-30	New	Acoustic Engineer
2161		**BUILDING ARCHITECTS**
2161-01	2161-01	Architect Grade J41

MASCO 2020	MASCO 2013	JOB TITLE
2161-02	2161-03	Architect
2161-03	2161-04	Interior Architect
2161-04	2161-05	Building Architect
2161-05	New	Green Building Consultant
2161-06	New	Architect Grade 23
2162		**LANDSCAPE ARCHITECTS**
2162-01	2162-01	Landscape Architect Grade J41
2162-02	2162-03	Landscape Architect
2163		**PRODUCT AND GARMENT DESIGNERS**
2163-01	2163-01	Commercial Products Designer
2163-02	2163-02	Industrial Products Designer
2163-03	2163-03	Fashion Designer
2163-04	2163-04	Jewellery Designer
2163-05	2163-05	Fabric Designer
2163-06	2163-06	Garment Designer
2163-07	2163-07	Textile Designer
2163-08	2163-08	Costume Designer
2163-09	2163-09	Packaging Designer
2163-10	2163-10	Shoe Designer
2163-11	New	Plastic Mould Designer
2163-12	New	Product Designer
2163-13	New	Fashion and Garment Executive
2163-14	New	Batik Designer
2163-15	New	Foundry Executive
2163-16	New	Process Designer
2163-17	New	Embroidery Specialist
2163-18	New	Pattern Specialist
2163-19	New	Solar Thermal Technology Designer
2163-20	New	Solar Thermal Technology Assistant Designer
2163-21	New	Solar Photovoltaic Technology Designer
2163-22	New	Solar Hotwater Technology Designer
2163-23	New	Biomass Technology Designer
2163-24	New	Hydro Technology Designer
2163-25	New	Green Technology Vehicle Designer
2163-26	New	Green Technology Design Professional
2163-27	New	Vehicle Designer
2164		**TOWN AND TRAFFIC PLANNERS**
2164-01	2164-01	Urban and Rural Planning Officer Grade J41
2164-02	2164-03	Town Planner
2164-03	2164-04	Urban and Rural Planner
2164-04	2164-05	Traffic Engineer
2164-05	2164-06	Traffic Planner
2164-06	2164-07	Land Planner
2164-07	New	Urban and Regional Planners
2165		**CARTOGRAPHERS AND SURVEYORS**
2165-01	2165-01	Geospatialist Grade J41
2165-02	2165-02	Surveyor Grade J41
2165-03	2165-04	Cartographer
2165-04	2165-05	Cartographer, Marine
2165-05	2165-06	Photogrammetrist
2165-06	2165-07	Map Maker
2165-07	2165-08	Surveyor
2165-08	2165-09	Mine Surveyor
2165-09	2165-10	Soil Surveyor
2165-10	2165-11	Topographic Surveyor

MASCO 2020	MASCO 2013	JOB TITLE
2165-11	2165-12	Photographic Surveyor
2165-12	2165-13	Geodesic Surveyor
2165-13	2165-14	Hydrographic Surveyor
2165-14	2165-15	Cadastral Surveyor
2165-15	2165-16	Marine Surveyor
2165-16	2165-17	Aerial Surveyor
2165-17	2165-18	Land Surveyor
2166		**GRAPHIC AND MULTIMEDIA DESIGNERS**
2166-01	2166-01	Designer Grade B41
2166-02	New	E-Commerce Web Designer
2166-03	New	Designer Grade B43
2166-04	New	Designer Grade B47
2166-05	New	Designer Grade B51
2166-06	New	Designer Grade B53
2171		**SHIPS ENGINEERS**
2171-01	2171-01	Ship Engineer
2171-02	2171-02	Marine Engineer
2171-03	2171-03	Ship Construction Engineer
2171-04	2171-04	Hovercraft Architect
2171-05	2171-05	Naval Architect
2171-06	2171-06	Marine Architect
2172		**SHIPS DECK OFFICERS AND PILOTS**
2172-01	2172-01	Marine Officer Grade AL41
2172-02	2172-03	Ship Captain
2172-03	2172-04	Hovercraft Pilot
2172-04	2172-05	Ship Pilot
2172-05	2172-06	Port Captain
2172-06	2172-07	Harbour Master
2172-07	2172-08	Ship Navigator
2172-08	2172-09	Officer, Ship dan Deck
2172-09	2172-10	Ferry Captain
2172-10	2172-11	Marine Superintendent (Deck)
2172-11	2179-02	Shipping Executive
2173		**AIRCRAFT PILOTS AND RELATED PROFESSIONALS**
2173-01	2173-01	Pilot/ Pilot Examiner Grade AT41
2173-02	2173-02	Aircraft Examiner Grade AT41
2173-03	2173-04	Pilot
2173-04	New	Flight Navigator
2173-05	2173-06	Flight Instructor
2173-06	New	Ground Instructor
2173-07	New	Simulator Instructor
2173-08	2171-07	Flight Engineer
2173-09	2171-08	Aircraft Engineer
2173-10	2171-09	Aircraft Design Engineer
2173-11	2171-10	Aeronautical Engineer
2173-12	New	Pilot/Pilot Examiner Grade AT43
2173-13	New	Pilot/Pilot Examiner Grade AT47
2173-14	New	Pilot/Pilot Examiner Grade AT51
2173-15	New	Pilot/Pilot Examiner Grade AT53
2173-16	New	Aircraft Examiner Grade A43
2173-17	New	Aircraft Examiner Grade A47
2173-18	New	Aircraft Examiner Grade A51
2173-19	New	Aircraft Examiner Grade A53
2173-20	New	Airworthiness Review Staff
2173-21	New	Hot Air Balloon Pilot

MASCO 2020	MASCO 2013	JOB TITLE
2173-22	New	Marine Aviation Officer
2174		**AIR TRAFFIC CONTROLLERS**
2174-01	2174-01	Air Traffic Control Officer Grade A41
2174-02	2174-03	Air Traffic Controller
2174-03	New	Operation Centre Controller
2174-04	2179-04	Air Cargo Officer
2174-05	New	Workshop Planning Executive, Aircraft
2174-06	New	Technical Record Executive, Aircraft
2174-07	New	Technical Record Administrator, Aircraft
2174-08	New	Senior Material Controller, Aircraft
2175		**TRAIN/LOCOMOTIVE CONTROLLERS**
2175-01	2175-01	Railway and Locomotive Operation Officer
2175-02	2175-02	Railway and Locomotive Operation Controller
2175-03	2175-03	Permanent-Way Inspector (Railways)
2179		**TRANSPORT CONTROLLERS NOT ELSEWHERE CLASSIFIED**
2179-01	New	Drone Pilot
2179-02	New	Unmanned Aerial Vehicle Pilot
2181		**MINING PROFESSIONALS**
2181-01	2181-01	Mining Excecutive
2182		**MANUFACTURING PROFESSIONALS**
2182-01	2182-01	Manufacturing Executive
2182-02	2182-02	Quality Assurance Executive
2182-03	2182-03	Quality Assurance Analyst
2182-04	2182-04	Quality Control Executive
2182-05	2182-05	Production Executive
2182-06	2182-06	Warehouse Executive
2182-07	2182-07	Store Executive
2182-08	2182-08	Maintenance Executive
2182-09	2182-09	Logs Officer
2182-10	2182-10	Manufacturing Quality Controller Executive
2182-11	New	Sawmill Controller
2182-12	New	Product Quality Controller
2182-13	New	Product Planner
2182-14	New	Presales Storage Consultant
2182-15	New	Quality Assurance Officer Grade P3
2182-16	New	Manufacturing Specialists
2182-17	New	Boiler Superintendents
2182-18	New	Supply Chain/Procurement Specialist
2182-19	New	Technical Executive
2182-20	New	Production Executive, Halal Food Manufacturing
2182-21	New	Quality Assurance Executive, Halal Meat Processing
2182-22	New	Production Specialist
2182-23	New	Warehouse Operation Officer
2182-24	New	Biotech Assistant
2182-25	2179-01	Load Sheet Officer
2182-26	2179-03	Logistics Executive
2182-27	New	Haulage Operation Executive
2182-28	New	Logistic Coordinator
2182-29	2149-13	Technical Service Adviser
2182-30	New	Product Analyst, Halal Industry
2182-31	New	Material Specialist
2182-32	New	Bindery Specialist

MASCO 2020	MASCO 2013	JOB TITLE
2183		**CONSTRUCTION PROFESSIONALS**
2183-01	2183-01	Construction Executive
2183-02	2183-02	Construction Project Executive
2183-03	2183-03	Construction Site Executive
2183-04	New	Construction Contract Executive
2211		**GENERALIST MEDICAL PRACTITIONERS**
2211-01	2211-01	Medical Officer Grade UD41
2211-02	2211-04	Medical Doctor
2211-03	2211-05	Medical Officer
2211-04	2211-06	Medical Practitioner
2211-05	2211-07	Medical Doctor, Insurance Consultancy
2211-06	2211-08	Medical Doctor, Anaesthesiology
2211-07	2211-09	Medical Doctor, Gynaecology
2211-08	2211-10	Medical Doctor, Cardiology
2211-09	2211-11	Medical Doctor, Neurology
2211-10	2211-12	Medical Doctor, Obstetrics
2211-11	2211-13	Medical Doctor, Ophthalmology
2211-12	2211-14	Medical Doctor, Psychiatry
2211-13	2211-15	Medical Doctor, Radiology
2211-14	2211-16	Family Medical Practitioner
2211-15	2211-17	General Medical Practitioner
2211-16	2211-18	Physician (General)
2211-17	2211-19	Health Officer
2211-18	New	Doctor, Skin
2211-19	New	Medical Officer Grade UD43/UD47
2211-20	New	Medical Officer Grade UD43
2211-21	New	Medical Officer Grade UD47
2211-22	New	Medical Officer Grade UD51
2211-23	New	Medical Officer Grade UD53
2211-24	New	Medical Officer Grade 23
2211-25	New	Doctor, Medical Business Management
2211-26	New	Infection Control Officer
2211-27	New	Occupational Health Doctor
2212		**SPECIALIST MEDICAL PRACTITIONERS**
2212-01	2212-01	Ear, Nose and Throat Specialist
2212-02	2212-02	Heart Specialist
2212-03	2212-03	Eye Specialist
2212-04	2212-04	Anaesthetist
2212-05	2212-05	Cardiac Anaesthetist
2212-06	2212-06	Medical Oncologist
2212-07	2212-07	Radiotherapy Oncologist
2212-08	2212-08	Psychiatrist
2212-09	2212-09	Ophthalmologist
2212-10	2212-10	Cardiologist
2212-11	2212-11	Neurologist
2212-12	2212-12	Gynaecologist
2212-13	2212-13	Obstetrician and Gynaecologist
2212-14	2212-14	Obstetrician and Gynaecologist, Fertility
2212-15	2212-15	Obstetrician and Gynaecologist, Oncology
2212-16	2212-16	Obstetrician and Gynaecologist, Fetomaternal Medicine
2212-17	2212-17	Surgeon
2212-18	2212-18	Surgeon, Hepatic
2212-19	2212-19	Surgeon, Cardiology
2212-20	2212-20	Surgeon, Cardiothoracic
2212-21	2212-21	Surgeon, Ophthalmology
2212-22	2212-22	Surgeon, Orthopedic
2212-23	2212-23	Surgeon, Osteopathic

MASCO 2020	MASCO 2013	JOB TITLE
2212-24	2212-24	Surgeon, Paediatric
2212-25	2212-25	Surgeon, Transplant
2212-26	2212-26	Surgeon, Plastic and Reconstructive
2212-27	2212-27	Surgeon, Neurosurgery
2212-28	2212-28	Surgeon, Ear, Nose and Throat
2212-29	2212-29	Surgeon, Thoracic
2212-30	2212-30	Surgeon, Traumatology
2212-31	2212-31	Surgeon, Urology
2212-32	2212-32	Surgeon, Vascular
2212-33	2212-33	Dermatologist
2212-34	2212-34	Orthopaedist
2212-35	2212-35	Otolaryngologist
2212-36	2212-36	Paediatrician
2212-37	2212-37	Paediatrician, Gastroenterology
2212-38	2212-38	Paediatrician, Haematology
2212-39	2212-39	Paediatrician, Cardiology
2212-40	2212-40	Paediatrician, Nephrology
2212-41	2212-41	Paediatrician, Neurology
2212-42	2212-42	Paediatrician, Oncology
2212-43	2212-43	Paediatrician, Respiratory
2212-44	2212-44	Physician
2212-45	2212-45	Physician, Dermatology
2212-46	2212-46	Physician, Endocrinology
2212-47	2212-47	Physician, Gastroenterology
2212-48	2212-48	Physician, Haematology
2212-49	2212-49	Physician, Cardiology
2212-50	2212-50	Physician, Nephrology
2212-51	2212-51	Physician, Neurology
2212-52	2212-52	Physician, Rheumatology
2212-53	2212-53	Physician, Family Medicine
2212-54	2212-54	Physician, Respiratory Medicine
2212-55	2212-55	Podiatrist
2212-56	2212-56	Prostheist
2212-57	2212-57	Radiologist
2212-58	2212-58	Radiologist, Diagnostic
2212-59	2212-59	Radiologist, Interventional
2212-60	2212-60	Radiologist, Nuclear Medicine
2212-61	2212-61	Radiologist, Radiotherapy
2212-62	2212-62	Urologist
2212-63	2212-63	Venereologist
2212-64	New	Osteopathist
2212-65	New	Application Specialist (POCT/Point-of-care testing)
2212-66	New	Application Specialist (Hematology)
2212-67	New	Application Specialist (Biokimia)
2212-68	New	Specialist Medical Officer Grade UD55
2221		**NURSING PROFESSIONALS**
2221-01	2221-01	Nurse Grade U41
2221-02	2221-03	Professional Nurse
2221-03	2221-04	Clinical Nurse
2221-04	2221-05	District Nurse
2221-05	2221-06	Nurse Anaesthetist
2221-06	2221-07	Nurse Educator
2221-07	2221-08	Nurse Practitioner
2221-08	2221-09	Public Health Nurse
2221-09	2221-10	Specialist Nurse
2221-10	2221-11	Nurse Instructor
2221-11	2221-12	Nurse
2221-12	2221-13	Sister

MASCO 2020	MASCO 2013	JOB TITLE
2221-13	2221-14	Nurse (Public Health)
2221-14	2221-16	Operation Theatre Nurse
2221-15	2221-17	Specialized Nurse
2221-16	2221-18	Orthopedic Nurse
2221-17	2221-19	Paediatric Nurse
2221-18	2221-20	Psychiatric Nurse
2221-19	2221-21	Occupational Health Nurse
2221-20	2221-22	Industrial Nurse
2222		**MIDWIFERY PROFESSIONALS**
2222-01	2222-01	Professional Midwife
2231		**TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS**
2231-01	2231-01	Professional Traditional Medical Practitioner
2231-02	2231-02	Traditional Medical Specialist
2231-03	2231-03	Acupuncturist
2231-04	2231-04	Homeopath
2231-05	2231-05	Naturopath
2231-06	2231-06	Ayurvedic Practitioner
2231-07	2231-07	Herbal Medicine Practitioner
2241		**PARAMEDICAL PRACTITIONERS**
2241-01	2241-01	Paramedic
2241-02	2241-02	Advanced Care Paramedic
2241-03	2241-03	Clinical Officer (Paramedical)
2241-04	New	Feldscher
2241-05	2241-05	Primary Care Paramedic
2251		**VETERINARIANS**
2251-01	2251-01	Veterinary Officer Grade GV41
2251-02	2251-03	Veterinarian
2251-03	2251-04	Veterinary Epidemiologist
2251-04	2251-05	Veterinary Surgeon
2251-05	2251-06	Public Health Veterinarian
2251-06	2251-07	Abattoir Veterinarian
2251-07	New	Veterinarian, Surgery
2261		**DENTISTS**
2261-01	2261-01	Dental Officer Grade UG41
2261-02	2261-04	Dentist
2261-03	2261-05	Dentist, Pedodontistry
2261-04	2261-06	Paedodontist
2261-05	2261-07	Dentist, Orthodontistry
2261-06	2261-08	Orthodontist
2261-07	2261-09	Dentist, Prosthodontistry
2261-08	2261-10	Prosthodontist
2261-09	2261-11	Dentist, Periodontistry
2261-10	2261-12	Periodontist
2261-11	2261-13	Dentist, Oral Surgery
2261-12	2261-14	Oral Dentistry Surgeon
2261-13	2261-15	Stomatologist
2261-14	2261-16	Dental Practitioner
2261-15	2261-17	Dental Surgeon
2261-16	2261-18	Endodontist
2261-17	2261-19	Oral and Maxillofacial Surgeon
2261-18	2261-20	Oral Pathologist
2262		**PHARMACISTS**
2262-01	2262-01	Pharmacist Grade UF41

MASCO 2020	MASCO 2013	JOB TITLE
2262-02	2262-03	Pharmacist
2262-03	2262-04	Industrial Pharmacist
2262-04	2262-05	Retail Pharmacist
2262-05	2262-06	Hospital Pharmacist
2262-06	2262-07	Dispensing Chemist
2262-07	New	Pharmacist Grade UF44
2262-08	New	Pharmacokinetic Analyst
2263		**ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND HYGIENE PROFESSIONALS**
2263-01	2263-01	Environmental Health Officer Grade U41
2263-02	2263-02	Labour Affairs Officer - Occupational Safety and Health
2263-03	2263-03	Pharmacist
2263-04	2263-04	Hazardous Waste Management Technologist
2263-05	2263-05	Labour Standards Officer - Occupational Safety and Health
2263-06	2263-06	Occupational Health and Safety Officer
2263-07	2263-07	Environmental Health Enforcement Officer
2263-08	2263-08	Environmental Safety and Health Technologist
2263-09	2263-09	Environmental Health Officer
2263-10	2263-10	Environmental Officer
2263-11	2263-11	Safety and Health Officer
2263-12	2263-12	Safety and Health Technologist
2263-13	2263-13	Industrial Health Officer
2263-14	2263-14	Industrial Safety Officer - Occupational Safety and Health
2263-15	2263-15	Occupational Safety and Health Officer
2263-16	2263-16	Occupational Health Officer
2263-17	2263-17	Occupational Hygiene Technologist
2263-18	2263-18	Occupational Safety Officer
2263-19	2263-19	Quarantine Officer - Public Health
2263-20	2263-20	Occupational Safety and Health Adviser
2263-21	New	Occupational Hygienist
2263-22	2263-22	Radiation Protection Expert
2263-23	New	Safety and Health Environmental Officer (Public)
2263-24	New	Authorised Gas Tester
2263-25	New	Indoor Air Quality (IAQ) Assessor
2263-26	New	Noise Competent Person
2263-27	New	Chemical Assessor
2263-28	New	Waste Management Competence Person
2263-29	New	Building Auditor
2263-30	2113-02	Food Technology Officer Grade C41
2263-31	New	Halal Executive
2263-32	New	Halal Executive, Halal Food Manufacturing
2263-33	New	Halal Executive, Slaughterhouse
2263-34	New	Halal Executive, Meat Processing
2263-35	New	Halal Executive, Logistics Operation
2263-36	New	Halal Executive, Halal Livestock Production
2263-37	2145-15	Food and Drinks Technologist
2263-38	New	Food Technologist
2263-39	New	Food Technologist, Halal Food Manufacturing
2263-40	New	Enforcement Officer, Halal Industry
2263-41	New	Landfill Engineer
2263-42	New	Geohazard Technical Consultant
2263-43	New	Lift Competent Person
2263-44	New	Major Hazard Competent Person
2263-45	New	Noise Risk Assessor
2264		**PHYSIOTHERAPISTS**
2264-01	2264-01	Medical Rehabilitation Officer Grade U41
2264-02	2264-04	Medical Therapist
2264-03	2264-05	Massage Healer

MASCO 2020	MASCO 2013	JOB TITLE
2264-04	2264-06	Physical Therapist
2264-05	2264-07	Mascular Therapist
2264-06	2264-08	Physiotherapy Masseur
2264-07	2264-09	Therapeutic Masseur
2264-08	2264-10	Health Therapist
2264-09	2264-11	Geriatric Physical Therapist
2264-10	2264-12	Paediatric Physical Therapist
2264-11	2264-13	Orthopaedic Physical Therapist
2264-12	New	Instructor, Physiotherapist
2264-13	New	Physiotherapy Officer Grade 23
2264-14	New	Physiotherapist
2265		**DIETICIANS AND NUTRITIONISTS**
2265-01	2265-01	Dietetics Officer Grade U41
2265-02	2265-02	Dietician
2265-03	2265-03	Hospital Dietician
2265-04	2265-04	Public Health Dietician
2265-05	2265-05	Therapeutic Dietician
2265-06	2265-06	Nutritionist
2265-07	2265-07	Animal Nutritionist
2265-08	2265-08	Public Health Nutritionist
2265-09	2265-09	Research Nutritionist
2265-10	2265-10	Dietetic Consultant
2265-11	2265-11	Food Processing Consultant
2265-12	2265-12	Clinical Dietician
2265-13	2265-13	Food Serving Dietician
2265-14	2713-01	Food Preparation Officer Grade C41
2265-15	New	Dietetics Officer
2265-16	New	Aqua Nutrionist Research and Development
2266		**AUDIOLOGISTS AND SPEECH THERAPISTS**
2266-01	2266-01	Audiologists
2266-02	2266-02	Speech Therapist
2266-03	2266-03	Orthoepist
2266-04	2266-04	Orthophonist
2266-05	2266-05	Language Therapist
2266-06	New	Speech Pathologist
2267		**OPTOMETRISTS AND OPHTHALMIC OPTICIANS**
2267-01	2267-01	Optometry Officer Grade U41
2267-02	2267-02	Optometrist
2267-03	2267-03	Optician
2267-04	2267-04	Ophthalmic Optician
2267-05	2267-05	Orthoptist
2268		**OCCUPATIONAL THERAPISTS**
2268-01	2268-01	Occupational Therapist
2268-02	New	Occupational Therapy Officer Grade 23
2268-03	New	Case Manager Grade 23
2269		**HEALTH PROFESSIONALS NOT ELSEWHERE CLASSIFIED**
2269-01	2269-01	X-Ray Technician Grade U41
2269-02	2211-02	Instructor Grade U41
2269-03	New	Blind Therapist
2269-04	New	Perfusionist
2269-05	New	Assistant Medical Officer Grade U41
2269-06	3259-01	Chiropractor
2269-07	3259-02	Osteopath
2269-08	New	Chiropodist

MASCO 2020	MASCO 2013	JOB TITLE
2311		**UNIVERSITY AND HIGHER EDUCATION PROFESSIONAL TEACHERS**
2311-01	2311-01	University Lecturer Grade DS45
2311-02	New	Medical Lecturer Grade DU51P
2311-03	2311-03	UiTM Lecturer Grade DM41
2311-04	2311-04	UiTM Assistant Lecturer Grade DM29
2311-05	New	Dental Lecturer Grade DUG51P
2311-06	2311-08	Higher Learning Education Officer Grade DH41
2311-07	2311-09	Higher Learning Education Officer Grade DH29
2311-08	2311-10	Lecturer
2311-09	2311-11	Tutor
2311-10	2311-12	Professor
2311-11	New	Lecturer, College
2311-12	New	Lecturer, Polytechnic
2311-13	New	Lecturer, University
2311-14	New	Professor, University
2311-15	New	Professor, College
2311-16	New	Tutor, University
2311-17	New	Pharmacy Lecturer Grade DUF45
2311-18	New	Higher Learning Education Officer Grade DH31
2311-19	New	Higher Learning Education Officer Grade DH33
2311-20	New	Higher Learning Education Officer Grade DH39
2311-21	New	Higher Learning Education Officer Grade DH43
2311-22	New	Higher Learning Education Officer Grade DH47
2311-23	New	Higher Learning Education Officer Grade DH51
2311-24	New	Higher Learning Education Officer Grade DH53
2311-25	New	UiTM Lecturer Grade DM45
2311-26	New	UiTM Lecturer Grade DM51
2311-27	New	UiTM Lecturer Grade DM53
2311-28	New	University Lecturer Grade DS51
2311-29	New	University Lecturer Grade DS53
2311-30	New	Medical Lecturer Grade DU51
2311-31	New	Medical Lecturer Grade DU53
2311-32	New	Dental Lecturer Grade DUG51
2311-33	New	Dental Lecturer Grade DUG53
2311-34	New	Pharmacy Lecturer Grade DUF51
2311-35	New	Pharmacy Lecturer Grade DUF53
2311-36	New	UiTM Lecturer Grade Khas C
2311-37	New	University Lecturer Grade Khas C
2311-38	New	Medical Lecturer Grade DU55
2311-39	New	Medical Lecturer Grade Khas C
2311-40	New	Dental Lecturer Grade DUG55
2311-41	New	Dental Lecturer Grade Khas C
2311-42	New	Pharmacy Lecturer Grade Khas C
2321		**VOCATIONAL EDUCATION TEACHERS**
2321-01	2321-01	Teacher, Technic
2321-02	2321-02	Teacher, Vocational
2331		**SECONDARY EDUCATION TEACHERS**
2331-01	2331-01	Graduate Education Services Officer Grade DG41
2331-02	2331-02	Secondary Education Teacher
2331-03	2331-03	Graduate Teacher Officer
2331-04	2331-04	Pre-University Teacher
2331-05	New	Education Services Officer Grade DG41
2331-06	2399-08	Teacher, Home Economics
2341		**PRIMARY SCHOOL TEACHERS**
2341-01	2341-01	Post-Diploma Education Service, Officer Grade DGA29
2341-02	2341-02	Primary School Teacher

MASCO 2020	MASCO 2013	JOB TITLE
2341-03	New	Education Services Assistant Officer Grade DG29
2342		**EARLY CHILDHOOD EDUCATORS**
2342-01	2342-01	Pre-Primary School Teacher
2342-02	2342-02	Kindergarten Teacher
2342-03	2342-03	Pre-school Teacher
2342-04	2342-04	Early Childhood Educator
2342-05	New	Teacher, Nursery
2351		**MUSIC TEACHERS**
2351-01	2351-01	Music Teacher
2351-02	2351-02	Singing Teacher
2352		**ARTS TEACHERS**
2352-01	2352-01	Fine Arts Teacher
2352-02	2352-02	Sculpture Teacher
2352-03	2352-03	Painting Teacher
2353		**PERFORMING ARTS TEACHERS**
2353-01	2353-01	Modeling Teacher
2353-02	2353-02	Dance Teacher
2353-03	2353-03	Drama Teacher
2361		**LANGUAGE TEACHERS**
2361-01	2361-01	Language Teacher Grade DG41
2361-02	2361-02	Intensive Language Teacher
2361-03	2361-03	Migrant Education Teacher
2361-04	2361-04	Practical Language Teacher
2361-05	2361-05	Second Language Teacher
2371		**RELIGIOUS TEACHERS**
2371-01	2371-02	Ustaz/Ustazah
2371-02	2371-03	Islamic Education Teacher
2371-03	New	Other Religious Education Teacher
2381		**VOCATIONAL TRAINING OFFICERS**
2381-01	2381-01	Vocational Training Officer Grade DV41
2381-02	2381-02	Skills Training Trainer
2381-03	2381-01	Assistant Vocational Training Officer Grade DV29
2381-04	2399-01	Training Officer Grade E41
2381-05	2399-02	Assistant Training Officer Grade E29
2381-06	New	Assistant Vocational Training Officer Grade DV35
2381-07	New	Assistant Vocational Training Officer Grade DV37
2381-08	New	Assistant Vocational Training Officer Grade DV39
2381-09	New	Vocational Training Officer Grade DV43
2381-10	New	Vocational Training Officer Grade DV47
2381-11	New	Vocational Training Officer Grade DV51
2381-12	New	Vocational Training Officer Grade DV53
2391		**EDUCATION METHODS SPECIALISTS**
2391-01	2391-01	Curriculum Developer
2391-02	2391-02	Education Methods Specialist
2391-03	2391-03	School Inspector
2391-04	2391-04	Educational Systems Evaluator
2391-05	2391-05	Teaching Aid Specialist
2391-06	2391-06	Visual Teaching Aid Specialist
2391-07	2391-07	Audio-Visual Teaching Specialist
2391-08	2391-08	Educational Systems Researcher
2391-09	2391-09	Educational Methods Adviser

MASCO 2020	MASCO 2013	JOB TITLE
2391-10	2391-10	Curriculum Coordinator
2392		**SPECIAL NEEDS TEACHERS**
2392-01	2392-01	Teacher, Special Education For The Deaf
2392-02	2392-02	Teacher, Special Education For The Dumb
2392-03	2392-03	Teacher, Special Education For The Blind
2392-04	2392-04	Teacher, Special Education For The Mentally Handicapped
2392-05	2392-05	Teacher, Special Education For The Physically Handicapped
2392-06	2392-06	Professional Remedial Teacher
2392-07	2392-07	Learning Disability Special Education Teacher
2392-08	2392-08	Learning Support Teacher
2392-09	2392-09	Remedial Teacher
2393		**INFORMATION TECHNOLOGY TRAINERS**
2393-01	2393-01	Satellite-Instruction Facilitator
2393-02	2393-02	Computer Trainer
2393-03	2393-03	Software Trainer
2399		**TEACHING PROFESSIONALS NOT ELSEWHERE CLASSIFIED**
2399-01	2399-03	Kesatria Officer Grade S41
2399-02	2399-05	Educational Counsellor
2399-03	2399-06	Vocational Student Counsellor
2399-04	2399-09	Teacher, Adult Education
2399-05	2399-10	School Counsellor
2399-06	New	Tuition Teacher
2399-07	New	Sport Teacher
2411		**ACCOUNTANT AND AUDITOR**
2411-01	2411-01	Accountant Grade WA41
2411-02	2411-02	Executive Officer (Accounting) Grade 41
2411-03	2411-05	Executive Officer (Accounting) Grade 9
2411-04	2411-07	Executive Officer (Accounting) Grade L5
2411-05	2411-09	Auditing Accountant
2411-06	2411-10	Accountant
2411-07	2411-11	Cost Accountant
2411-08	2411-12	Tax Accountant
2411-09	2411-13	Tax Consultant
2411-10	2411-14	Liquidator
2411-11	2411-15	Public Accountant
2411-12	2411-16	Chartered Accountant
2411-13	2411-17	Group Accountant
2411-14	2411-18	Management Accountant
2411-15	2411-19	Municipal Accountant
2411-16	2411-20	Company Accountant
2411-17	2411-21	Account Executive
2411-18	2411-23	Cost Controller
2411-19	2411-24	Certified Accountant
2411-20	2411-25	Financial Controller
2411-21	2411-26	Account Receivable Executive
2411-22	2411-27	Account Payable Executive
2411-23	2411-30	Auditors Grade W41
2411-24	2411-31	Executive Officer (Auditing) Grade 41
2411-25	2411-35	Auditor
2411-26	2411-36	Audit Executive
2411-27	2411-37	Audit and Risk Assessment Executive
2411-28	2411-39	Executive Officer (Auditing) Grade 9
2411-29	2411-40	Executive Officer (Auditing) Grade L5
2411-30	2411-43	Payroll Executive
2411-31	New	Operation Accountant

MASCO 2020	MASCO 2013	JOB TITLE
2411-32	New	Production Accountant
2411-33	New	Project Accountant
2411-34	New	Chief Accountants
2411-35	New	Drilling Accountants
2411-36	New	Adjuster
2411-37	New	Internal Auditor
2411-38	New	Forensic Accountant
2411-39	New	Cost Estimator
2411-40	New	Auditor, Halal Industry
2411-41	New	Executive Account Officer
2411-42	New	Account Officer
2411-43	New	Accountant Grade WA47
2411-44	New	Accountant Grade WA51
2411-45	New	Accountant Grade WA53
2411-46	New	Accountant Grade 23
2412		**FINANCIAL AND INVESTMENT ADVISERS**
2412-01	2412-01	Finance Officer Grade W41
2412-02	2412-03	Executive Officer (Finance) Grade L5
2412-03	2412-05	Corporate Financial Adviser
2412-04	2412-06	Financial and Investment Adviser
2412-05	2412-07	eCommerce Adviser
2412-06	2412-08	Finance Executive
2412-07	2412-09	Bank Executive Officer
2412-08	2412-10	Financial Planner
2412-09	2412-11	Estate Planner
2412-10	2412-12	Property Executive
2412-11	New	Sales Analyst
2412-12	New	High-net-worth Client Adviser
2412-13	New	Financial Adviser
2412-14	2421-01	Evaluation Officer Grade W41
2412-15	New	Financial Officer
2412-16	New	Wealth Consultant
2412-17	New	Leasing Executive
2412-18	New	Administrative Officer (Investment) Grade N48
2413		**FINANCIAL ANALYSTS**
2413-01	2413-01	Financial Analyst
2413-02	2413-02	Bond Analyst
2413-03	2413-03	Investment Consultant
2413-04	2413-04	Risk Operation Analyst
2413-05	New	Pricing Analyst
2413-06	New	Research Analyst
2413-07	New	Debt Analyst
2413-08	New	Investment Analyst
2413-09	New	Fraud Prevention Specialist
2413-10	New	Equity Analyst
2413-11	New	Risk Management Officer
2413-12	New	Market Risk Officer
2413-13	New	Operational Risk Officer
2413-14	New	Risk Analyst
2413-15	New	Risk Modeller
2413-16	New	Transfer Pricing Consultant
2413-17	New	Fraud and Investigation Consultant
2413-18	New	Financial Reporting Analyst
2413-19	New	Credit Risk Management
2413-20	New	Credit and Lending Product Developer
2413-21	New	Anti-Money Laundering Specialist
2413-22	2411-42	Payroll Analyst

MASCO 2020	MASCO 2013	JOB TITLE
2413-23	2411-22	Bank Accounting Analyst
2413-24	New	Risk Management Engineer
2421		**MANAGEMENT AND ORGANIZATION ANALYSTS**
2421-01	2421-03	Organization and Methods Analyst
2421-02	2421-04	Research and Information Analyst
2421-03	2421-05	Operation Research Analyst
2421-04	2421-06	Management Consultant
2421-05	2431-05	Business Consultant
2421-06	New	Strategy Analyst
2421-07	New	Market Research/Business Analysts (Organization)
2421-08	New	Franchise Consultant
2422		**POLICY ADMINISTRATION PROFESSIONALS**
2422-01	2422-01	Administrative and Diplomatic Officer Grade M41
2422-02	2422-02	Policy Analyst
2422-03	2422-03	Intelligence Officer
2422-04	2422-04	Policy Officer
2422-05	2422-05	Policy Executive
2423		**PERSONNEL AND CAREERS PROFESSIONALS**
2423-01	2423-01	Personnel Safety Officer
2423-02	2423-02	Personnel Officer
2423-03	2423-03	Human Resource Executive
2423-04	2423-04	Job Analyst
2423-05	2423-05	Occupational Analyst
2423-06	2423-06	Job Evaluator
2423-07	2423-07	Employment Counselor
2423-08	2423-08	Occupational Guidance Officer
2423-09	2423-09	Career Adviser
2423-10	2423-10	Labour Management Relations Conciliator
2423-11	2423-11	Personnel Consultant
2423-12	2423-12	Human Resource Expert
2423-13	2423-13	Vocational Guidance Counsellor
2423-14	2423-14	Industry Educator
2423-15	2423-15	Training Consultant
2423-16	2423-16	Human Resource Analyst
2423-17	2423-17	Human Resource Coordinator
2423-18	2423-18	Human Resource Consultant
2423-19	2423-19	Talent Management Specialist
2423-20	2423-20	Training Specialist
2423-21	New	Talent Acquisition Consultant
2423-22	New	Training Executive, Halal Industry
2423-23	New	Human Resource Officer
2423-24	New	Student Recruitment Officer
2423-25	New	Training Administrator
2424		**TRAINING AND STAFF DEVELOPMENT PROFESSIONALS**
2424-01	2424-01	Staff Training Officer
2424-02	2424-02	Vocational Staff Training Officer
2424-03	2424-03	Workforce Development Specialist
2424-04	New	Training Developer
2424-05	New	Training Officer, Halal Industry
2424-06	New	Well Experience Trainer
2424-07	New	Continuous Improvement Coach
2425		**ADMINISTRATIVE PROFESSIONALS**
2425-01	2425-01	Administrative Officer Grade N41
2425-02	2425-02	Executive Officer (Administration) Grade 41

MASCO 2020	MASCO 2013	JOB TITLE
2425-03	2425-03	Executive Officer (Administration) Grade L5
2425-04	2425-11	Public Service Commission Officer
2425-05	2425-12	Government Executive Officer
2425-06	2425-13	Government Administrative Executive
2425-07	2425-14	Statutory Bodies Executive Officer
2425-08	2425-15	Administrative Executive
2425-09	2425-16	College/University Registrar
2425-10	2425-17	Administrative Officer
2425-11	2425-18	Administration Executive Officer
2425-12	2425-19	Operation Executive
2425-13	New	Executive Officer
2425-14	New	Officer, Document Controller
2425-15	New	Officer, Document
2425-16	New	Operation Officer
2425-17	New	Project Coordinator
2425-18	New	Administrative Officer Grade 23
2425-19	New	Job Preparation Executive
2426		**RESEARCH AND DEVELOPMENT PROFESSSIONALS**
2426-01	2426-01	Research Officer Grade Q41
2426-02	2426-02	Scientific Officer Grade C41
2426-03	2426-06	Agro-Based Biotech Food Researcher
2426-04	2426-07	Aquaculture Biotech Researcher
2426-05	2426-08	Agriculture Biotech Researcher
2426-06	2426-09	Veterinary Biotech Researcher
2426-07	New	Research and Development Executive (Agricultural)
2426-08	New	Aqua and Marine Researcher
2426-09	New	Research and Development Executive
2426-10	2822-01	Social Research Officer Grade N41
2426-11	2133-16	Scientist
2426-12	New	Research and Development Executive, Halal Food Manufacturing
2426-13	New	Research Officer
2426-14	New	Laser Welding Polymer Research and Development Controller
2426-15	New	Green Technology Fuel Research Technologist
2426-16	New	Research Officer Grade Q43
2426-17	New	Research Officer Grade Q47
2426-18	New	Research Officer Grade Q51
2426-19	New	Research Officer Grade Q53
2426-20	New	Research Officer Grade 23
2431		**ADVERTISING AND MARKETING PROFESSIONALS**
2431-01	2431-01	Advertising Executive Account
2431-02	2431-02	Market Research Business Analyst
2431-03	2431-03	Sales Promotion Officer
2431-04	2431-04	Business Efficiency Officer
2431-05	New	Business Executive
2431-06	2431-06	Patent Agent
2431-07	2431-07	Market Research Analyst
2431-08	2431-08	Sales Specialist
2431-09	New	Business Compliance Executive
2431-10	New	Marketing Communications Specialist
2431-11	New	Compliance Officer
2431-12	New	Shariah Compliance Officer
2431-13	New	Compliance Analyst
2431-14	New	Trade Product Specialist
2431-15	New	Business Development Engineer
2431-16	New	Market Research Analyst, Halal Industry
2431-17	3322-09	Technical Adviser
2431-18	3322-12	Export Executive

MASCO 2020	MASCO 2013	JOB TITLE
2431-19	3322-13	Sales Executive
2431-20	3322-14	Marketing Executive
2431-21	3322-15	Business Development Executive
2431-22	3322-16	Sales Administrative Executive
2431-23	3322-17	Product Brand Executive
2431-24	3322-18	Executive Analyst, Market Research
2431-25	3322-19	Field Consultant
2431-26	3322-21	Area Support Sales Engineer
2431-27	3322-25	Commercial Railway Officer
2431-28	New	Regional Sales Executive
2431-29	New	Offshore Sales Executive
2431-30	New	Sales Engineer
2431-31	New	Marketing Engineer
2431-32	New	Technical Sales Engineer
2431-33	New	Marketing Executive Grade P3
2431-34	New	Social Media Marketing Executive
2431-35	New	Digital Marketing Executive
2431-36	New	Marketing Officer
2431-37	New	Sales Officer
2431-38	New	Sales Executive Coordinator
2431-39	New	Merger dan Acquisition Executive
2431-40	New	Sales and Marketing Executive
2431-41	New	Event Executive
2432		**PUBLIC RELATIONS PROFESSIONALS**
2432-01	2432-01	Information Officer Grade S41
2432-02	2432-03	Public Relations Officer
2432-03	2432-04	Corporate Affairs Executive
2432-04	2432-05	Industrial Relations Executive
2432-05	2432-06	Public Relations Executive
2432-06	2432-07	Customer Service Executive
2432-07	2432-08	Publicity Agent
2432-08	2432-09	Corporate Communication Executive
2432-09	2432-10	Press Officer
2432-10	2432-11	Press Liaison Officer
2432-11	2432-12	Media Planner
2432-12	2432-13	Tourism Officer
2432-13	2432-14	Customer Service Officer
2432-14	2432-15	Customer Care Coordinator
2432-15	2432-16	Customer Relations Executive
2432-16	2432-17	Sales Reservation Executive
2432-17	2432-18	Call Centre Officer
2432-18	New	Front Office Officer
2432-19	New	Corporate Executive
2432-20	New	Strategic Communication Officer Grade S41
2432-21	New	Program Management Officer
2432-22	New	Strategic Communication Officer Grade S43
2432-23	New	Strategic Communication Officer Grade S47
2432-24	New	Strategic Communication Officer Grade S51
2432-25	New	Strategic Communication Officer Grade S53
2433		**TECHNICAL AND MEDICAL SALES PROFESSIONALS (EXCLUDING ICT)**
2433-01	2433-01	Sales Representative, Medical
2433-02	2433-02	Sales Representative, Medical Devices
2433-03	2433-03	Sales Representative, Medical Hardware
2433-04	New	Sales Representative, Active Implantable Devices
2433-05	2433-05	Sales Representative, Anaesthetic and Respiratory Devices
2433-06	2433-06	Sales Representative, Dental Devices
2433-07	2433-07	Sales Representative, Electromechanical Medical Devices

MASCO 2020	MASCO 2013	JOB TITLE
2433-08	2433-08	Sales Representative, Ophthalmic and Optical Devices
2433-09	2433-09	Sales Representative, Industrial Product
2433-10	2433-10	Sales Representative, Medical and Pharmaceutical Product
2433-11	2433-11	Technical Sales Representative
2433-12	New	Healthcare Sales Representative
2434		**INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT) SALES PROFESSIONALS**
2434-01	2434-01	Sales Representative, Information and Communications Technology
2434-02	2434-02	Sales Representative, Computer
2434-03	2434-03	Product Support Engineer
2434-04	2434-04	Information Technology Sales Engineer
2434-05	2434-05	Customer Support Representative
2434-06	New	Information Technology Product Engineer
2434-07	2434-07	Product Support Officer
2434-08	New	Sales Application Engineer (Information Technology)
2434-09	2434-09	Product Development Engineer
2434-10	New	Digital Banking/Internet Technology Specialist
2434-11	New	Customer Support Officer (Information Technology)
2434-12	New	Customer Support Engineer (Information Technology)
2434-13	New	E-Commerce Executive
2511		**SYSTEMS ANALYSTS**
2511-01	2511-03	Management Information Systems (MIS) Analyst
2511-02	2511-04	Computer Systems Analyst
2511-03	2511-05	Computer Consultant
2511-04	New	Information Technology Systems Consultant
2511-05	2511-07	Information Technology Consultant
2511-06	2511-08	Information Technology Business Analyst
2511-07	2511-09	Information Technology Researcher
2511-08	2511-10	Computer Systems Designer
2511-09	2511-11	Information Technology Systems Designer
2511-10	2511-12	Computer Scientist
2511-11	2511-14	RPG System Analyst (Role-Playing Game)
2511-12	2511-21	.Net Consultant
2511-13	New	.Net Application Consultant
2511-14	2511-23	Information Technology Consultant (.Net)
2511-15	2511-24	Information Technology Specialist (.Net)
2511-16	2511-25	Technical Specialist (.Net)
2511-17	2511-26	Java Consultant
2511-18	2511-27	Java Application Consultant
2511-19	New	Information Technology Consultant (Java)
2511-20	New	Information Technology Specialist(Java)
2511-21	2511-31	Technical Specialist (Java)
2511-22	2511-32	Information Technology System Analyst (JD Edwards-JDE)
2511-23	2511-33	JD Edwards (JDE) Application Specialist
2511-24	2511-34	Information Technology Specialist (Lotus Notes)
2511-25	2511-34	Application Specialist Support (Navision)
2511-26	2511-35	Oracle E-Business Suite Consultant
2511-27	New	Oracle Financials Support Specialist
2511-28	New	Oracle Functional Consultant
2511-29	New	Oracle Consultant
2511-30	New	Peoplesoft Consultant
2511-31	New	Peoplesoft Financials Functional Consultant
2511-32	2511-46	Enterprise Systems Specialist (Information Technology)
2511-33	2511-47	Enterprise Resource Planning (ERP) Technical Specialist (Information Technology)
2511-34	New	Information Technology Specialist SAP (Systems Applications and Products)
2511-35	2511-49	Sharepoint Consultant
2511-36	2511-50	Sharepoint Technical Specialist
2511-37	2511-51	Sharepoint Specialist

MASCO 2020	MASCO 2013	JOB TITLE
2511-38	2511-52	Siebel Specialist
2511-39	2511-53	Information Technology Application Management Analyst (Siebel)
2511-40	2511-54	Information Technology Specialist(Siebel)
2511-41	2511-55	Siebel Customer Relationship Management (CRM) Consultant (Information Technology)
2511-42	2511-57	Register Transfer Level (RTL) Designer (Information Technology)
2511-43	2511-58	Analog Integrated Circuit (IC) Designer (Information Technology)
2511-44	2511-59	Design Engineer (Information Technology)
2511-45	2511-60	Integrated Circuit (IC) Designer (Information Technology)
2511-46	2511-61	Logic Designer (Information Technology)
2511-47	2511-62	Mixed Signal Integrated Circuit (IC) Designer (Information Technology)
2511-48	2511-63	Power Integrated Circuit(IC) Designer (Information Technology)
2511-49	2511-64	Radio Frequency (RF) Integrated Circuit (IC) Design Engineer (Information Technology)
2511-50	New	Technical Helpdesk Analyst
2511-51	New	Computer Systems Integrated Analyst
2511-52	New	JD-Edwards (JDE) Consultant
2511-53	New	SAP Consultant (Systems Applications and Products)
2511-54	New	System Analysis Engineer
2511-55	New	Information and Communication Technology (ICT) Specialist
2511-56	New	Navision Functional Consultant
2511-57	New	E-Commerce System Analyst
2511-58	New	CAE Engineer (Computer-aided Engineering)
2511-59	New	System Analyst Grade 23
2512		**SOFTWARE DEVELOPERS**
2512-01	2512-01	Software Developer
2512-02	2512-02	Multimedia Software Developer
2512-03	2512-03	Software Designer
2512-04	2511-59	Design Engineer
2512-05	2512-05	.Net Developer
2512-06	2512-06	Application Developer (.Net)
2512-07	2512-07	Application Engineer (.Net)
2512-08	2512-08	Software Engineer (.Net)
2512-09	2512-09	C/C++ Developer
2512-10	2512-10	C/C++ Software Engineer
2512-11	2512-11	Cobol Developer
2512-12	2512-12	Microfocus Cobol Developer
2512-13	2512-13	Java Application Developer
2512-14	2512-14	Java Developer
2512-15	2512-15	Hypertext Preprocessor (PHP) Developer
2512-16	2512-16	Hypertext Preprocessor (PHP) Web Programmer
2512-17	2512-17	Information Technology Executive RPG (Role-Playing Game)
2512-18	2512-18	Lotus Notes Developer (Information Technology)
2512-19	2512-19	Information Technology System Architect
2512-20	2512-20	Information Technology Technical Architect
2512-21	2512-21	Navision Developer
2512-22	2512-22	Net Sharepoint Developer
2512-23	2512-23	Software Engineer
2512-24	2512-24	Siebel Developer
2512-25	New	Software Analyst
2512-26	New	Software Design Engineers
2512-27	New	Root Cause Failure Analysis (RCFA) Engineer
2512-28	New	SAP IT and Finance Applications Developers (Systems Applications and Products)
2512-29	New	SAP Application Developer (Systems Applications and Products)
2512-30	New	OpenText Developer
2512-31	New	Data Visualization Developer
2512-32	New	Debug Software Engineer
2512-33	New	Computer Engineer, Software
2512-34	New	iOS Developer
2512-35	New	Android Developer

MASCO 2020	MASCO 2013	JOB TITLE
2512-36	New	Mobile Application Developer (Mobile App)
2512-37	New	System Application Engineer
2512-38	New	Blockchain Developer
2512-39	New	Linux Software Engineer
2512-40	New	PLC Engineer (Programmable Logic Controller)
2512-41	New	System Engineer (Oracle)
2512-42	New	RPG Programmer (Role-Playing Game)
2512-43	New	Information System Executive
2512-44	New	Computer System Executive
2512-45	2152-13	Computer Systems Engineer
2512-46	2152-14	Management Information Systems (MIS) Engineer
2512-47	New	System Developer
2513		**WEB AND MULTIMEDIA DEVELOPERS**
2513-01	2513-01	Website Developer
2513-02	2513-02	Internet/ Intranet Developer
2513-03	2513-03	Website Architect
2513-04	2513-04	Webmaster
2513-05	2513-05	Website Administrator
2513-06	New	User Interphase (UI)/User Experience (UX) Front-End Developer
2513-07	New	Full Stack Developer
2513-08	New	E-Commerce Website Developer
2513-09	New	Front-End Developer
2513-10	New	Web and Mobility Developer
2513-11	New	User Experience Engineer
2514		**APPLICATIONS PROGRAMMERS**
2514-01	2514-01	Computer Programmer
2514-02	2514-02	Software Programmer
2514-03	2514-03	Technical Programmer
2514-04	2514-04	Information Technology Programmer
2514-05	2514-05	Communication Programmer
2514-06	2514-06	Database Programmer
2514-07	2514-07	Systems Programmer
2514-08	2514-08	Analyst Programmer
2514-09	2514-09	Applications Programmer
2514-10	2514-10	.NetAnalyst Programmer
2514-11	2514-11	Lotus Notes Programmer
2514-12	2514-12	Video Game Programmer
2514-13	2514-13	Network Programmer
2514-14	2514-14	Sound Programmer
2514-15	2514-15	Artificial Intelligence Programmer
2514-16	2514-16	Analog Integrated Circuit (IC) Design Verification Engineer
2514-17	2514-17	.Net Programmer
2514-18	2514-18	Software Programmer (.Net)
2514-19	2514-19	C/C++ Programmer
2514-20	2514-20	C++ Graphics Programmer
2514-21	2514-21	Cobol Programmer
2514-22	New	JavaScript Programmer
2514-23	2514-23	J2EE Programmer
2514-24	2514-24	J2ME Programmer
2514-25	2514-25	Java EE Programmer
2514-26	2514-26	Hypertext Preprocessor (PHP) Programmer
2514-27	2514-27	Animation Programmer
2514-28	2514-28	Computer Games Programmer
2514-29	2514-29	Multimedia Programmer
2514-30	2514-30	Navision Analyst Programmer
2514-31	2514-31	Java Analyst Programmer
2514-32	New	Database Application Specialist

MASCO 2020	MASCO 2013	JOB TITLE
2514-33	New	Computer Infrastructure Specialist
2514-34	New	User Interface (UI)/ Gameplay Coders
2514-35	New	Game Engine Programmers
2514-36	New	E-Commerce Web Programmer
2514-37	New	PLC Engineer (Programmable Logic Controllers)
2514-38	New	Tools Programmer
2514-39	2511-15	C++ Software Analyst
2514-40	New	.Net Programmer Analyst
2514-41	2511-20	Enterprise Resource Planning (ERP) Programmer Analyst (ABAP)
2514-42	New	Java Programmer Analyst
2519		**SOFTWARE AND APPLICATIONS DEVELOPERS AND ANALYSTS NOT ELSEWHERE CLASSIFIED**
2519-01	2519-01	Software Tester
2519-02	2519-02	Systems Tester
2519-03	2519-03	Product Quality Assurance Engineer (Information Technology)
2519-04	2519-04	Quality Assurance Analyst (Information Technology)
2519-05	2519-05	Quality Assurance Executive (Information Technology)
2519-06	2519-06	Quality Engineer (Information Technology)
2519-07	2519-07	Test Engineer (Information Technology)
2519-08	2519-08	Solution Architect (Information Technology)
2519-09	2519-09	Application Assurance Engineer (Information Technology)
2519-10	2519-10	Application Security Engineer (Information Technology)
2519-11	2519-11	Software Quality Assurance Engineer (Information Technology)
2519-12	2519-12	Siebel Solution Architect
2519-13	2519-13	Siebel Technical Architect
2519-14	New	Application Consultant
2519-15	New	Internal Auditor (Information Technology)
2519-16	New	Information Technology Auditor
2519-17	New	E-Commerce System Test Engineer
2519-18	New	Tester (Selenium, Cucumber skills)
2521		**DATABASE DESIGNERS AND ADMINISTRATORS**
2521-01	2521-01	Database Architect
2521-02	2521-02	Database Analyst
2521-03	2521-03	Database Administrator
2521-04	2521-04	Database Designer
2521-05	2521-05	Computer Auditor
2521-06	2521-06	Administrator, PDE (Electronic Data Processing)
2521-07	2521-07	Oracle Database Engineer
2521-08	2521-08	Oracle Database Specialist
2521-09	2521-09	SQL Database Administrator (Structured Query Language)
2521-10	2521-10	SQL Database Engineer (Structured Query Language)
2521-11	2521-11	SQL Database Specialist (Structured Query Language)
2521-12	New	Data Warehouse Specialist
2521-13	New	Database Specialist
2521-14	New	Business Database Analysts
2521-15	New	Hadoop Engineer
2521-16	New	E-Commerce Database Administrator
2521-17	New	E-Commerce Database Architect
2521-18	New	Data Centre Specialist
2522		**SYSTEMS ADMINISTRATORS**
2522-01	2522-01	Information Technology Officer Grade F41
2522-02	2522-02	Executive Officer (Information Technology) Grade 41
2522-03	2522-05	Executive Officer (Information Technology) Grade 9
2522-04	2522-07	Executive Officer (Information Technology) Grade L5
2522-05	2522-09	Information System Officer
2522-06	2522-10	Network Communications Executive

MASCO 2020	MASCO 2013	JOB TITLE
2522-07	New	Information Communications System Officer
2522-08	2522-12	Information Technology Support Officer
2522-09	2522-13	Systems Administrator
2522-10	2522-14	Computer System Administrator
2522-11	2522-15	Information Technology Executive
2522-12	New	Information Technology Project Coordinator
2522-13	New	Information Technology Project Administrator
2522-14	2522-18	Computer Support Engineer
2522-15	New	Information Technology Technical Specialist
2522-16	2522-21	SAP Application Administrator
2522-17	2522-22	Access Administration Analyst (Information Technology)
2522-18	2522-23	Inbound Technical Support Representative (Information Technology)
2522-19	2522-25	NetApps Administrator
2522-20	New	System Support Specialist
2522-21	New	Information Systems Maintenance Engineer
2522-22	New	Cloud Computing Solution Architect
2522-23	New	Billing Specialist
2522-24	New	Information Technology Architect
2522-25	New	Enterprise Applications Architect
2522-26	New	Cloud Technology Specialist
2522-27	New	Cloud Planner
2522-28	New	Technical Support Engineer (Information Technology)
2522-29	New	Integration Technology Specialist
2522-30	New	Management Information System (MIS) Specialist
2522-31	New	Information Technology Infrastructure Specialists
2522-32	2812-15	Information Scientist, Technical Information
2522-33	2812-16	Information Scientist, Business Services
2522-34	2152-15	Information Technology Engineer
2522-35	New	Systems Design Engineer (Information Technology)
2522-36	New	Technical System Administrator
2522-37	New	BIM Coordinator (Building Information Modeling)
2522-38	New	Geographic Information Systems (GIS) Officer
2522-39	New	Oracle Applications Administrator
2522-40	New	Computer and System Administrator
2523		**COMPUTER NETWORK PROFESSIONALS**
2523-01	2523-01	Network Analyst
2523-02	2523-02	Network Services Consultant
2523-03	2523-03	Network Administrator
2523-04	2523-04	Network Infrastructure Administrator
2523-05	2523-05	Network Engineer
2523-06	2523-06	Network Systems Engineer
2523-07	New	Cloud Specialist
2523-08	New	Radio Network Planning Consultant
2523-09	New	Network Performance Consultant
2523-10	New	Network System Engineer (Information Technology)
2523-11	New	Network Specialist
2523-12	New	Network Performance
2523-13	2511-01	Communications Computer Analyst
2523-14	New	Network Security Executive
2523-15	New	Network Security Software Developers
2523-16	New	IP logic Design Engineer (Internet Protokol)
2524		**DATA PROFESSIONALS**
2524-01	New	Data Scientist
2524-02	New	Big Data Engineer
2524-03	New	Data Analyst
2524-04	New	Data Modeller
2524-05	New	Data Miner

MASCO 2020	MASCO 2013	JOB TITLE
2524-06	New	Data Architect
2524-07	New	Tera Data Analyst
2524-08	New	Data Predictive Analyst
2524-09	New	Data Mining Analyst
2524-10	New	Big Data Analyst
2524-11	New	Machine Learning Engineer
2524-12	New	Deep Learning Engineer
2524-13	New	Artificial Intelligence Engineer (AI)
2524-14	New	Data Steward
2524-15	New	E- Commerce Data Analyst
2524-16	New	Business Data Analyst
2524-17	New	Expert Big Data Analyst
2524-18	New	Extract Transform Load Developer
2524-19	2511-02	Electronic Data Processing Analyst
2524-20	2511-16	Oracle Database Analyst
2524-21	2511-17	SQL Database Analyst (Structured Query Language)
2531		**CYBERSECURITY PROFESSIONALS**
2531-01	2529-01	Information and Communication Technology Security Executive
2531-02	New	Cybersecurity Executive
2531-03	2529-03	Digital Forensic Specialist
2531-04	New	Security Specialist (Information Technology)
2531-05	New	Security Technologist Specialist
2531-06	New	Security Architect (Information Technology)
2531-07	New	Application Security Specialist
2531-08	New	Security Strategist
2531-09	New	Network Penetration Tester
2531-10	New	Network Strategist
2531-11	New	Technology Strategist
2531-12	New	Enterprise Convergence Strategist
2531-13	New	Access Control Specialist
2531-14	New	Data Security Specialist
2531-15	New	Security Engineer (Information Technology)
2531-16	New	Cybersecurity Architect
2531-17	New	Cybersecurity Specialist
2531-18	New	Information Security Analyst
2531-19	New	Security Administrator (Information Technology)
2531-20	New	Information Security Officer
2531-21	New	Incident Responder (Information Technology)
2531-22	New	Penetration Tester (Information Technology)
2531-23	New	Malware Analyst
2531-24	New	Cyber Threat Investigator
2531-25	New	Forensic Analyst (Information Technology)
2531-26	New	Cybersecurity Consultant
2531-27	New	Cybersecurity Engineer
2531-28	New	Systems Security Engineer
2531-29	New	DevOps Engineer
2531-30	New	Cybersecurity Analyst
2531-31	New	Test Analyst (Information Technology)
2531-32	New	Security Officer (Information Technology)
2531-33	New	Security Executive (Information Technology)
2531-34	New	Cyber Risk Analyst
2531-35	New	Security Penetration Tester (Information Technology)
2531-36	New	Security Infrastructure Engineer
2531-37	New	Forensic Investigator
2531-38	New	Principal Security Engineer
2531-39	New	Internet Safety Evaluater
2531-40	2511-18	Information Technology Security Analyst

MASCO 2020	MASCO 2013	JOB TITLE
2541		**ANIMATION AND VISUAL EFFECTS PROFESSIONALS**
2541-01	2166-36	Layout Artist
2541-02	New	3D Animator
2541-03	2166-32	2D Animator
2541-04	New	CG Modeler
2541-05	New	3D Modeller
2541-06	New	Match Move Artist/3D Tracker
2541-07	New	Lighting Artist
2541-08	New	Render Wrangler
2541-09	New	Roto Artist
2541-10	New	Compositor/Composite artist
2541-11	New	Storyboard Artist
2541-12	New	Scriptwriter / Screenwriter
2541-13	New	Effects/FX Artist
2541-14	2166-07	Graphic Artist
2541-15	2166-08	Designer Artist
2541-16	2166-09	Digital Artist
2541-17	2166-11	Illustrator
2541-18	New	Visualizer
2541-19	New	Desktop Publishing Artist (Animation)
2541-20	2166-25	Multimedia Artist
2541-21	2166-21	Graphics Illustrator
2541-22	2166-22	Technical Illustrator
2541-23	New	Flash Animator
2541-24	New	Flash Developer
2541-25	2166-31	Web Animator
2541-26	New	Visualization Specialist
2541-27	New	Computer Specialist
2541-28	New	Story Content Writer
2542		**DIGITAL GAMES AND eSPORTS PROFESSIONALS**
2542-01	New	Game Designer (Digital)
2542-02	New	Level Designer (Digital)
2542-03	New	QA Tester/Game Tester (Digital)
2542-04	New	Game Producer (Digital)
2542-05	New	Game Director (Digital)
2542-06	2166-33	3D Artist
2542-07	New	2D Artist
2542-08	2166-10	Animator
2542-09	New	Concept Artist
2542-10	New	Technical Artist
2542-11	New	Art director
2542-12	New	Game Programmer (Digital)
2542-13	New	Tools Programmer (Digital)
2542-14	New	Engine Programmer (Digital)
2542-15	New	Graphics Programmer
2542-16	2166-03	Computer Graphics and Sound Artist
2542-17	New	Graphics Creator
2542-18	New	Group Lead Artist Graphic
2542-19	2166-26	Video Game Artist
2542-20	New	Computer Graphics (CG) Artist
2542-21	New	Visual Effects Artist
2542-22	New	Animation Supervisor
2542-23	New	Creative Artist
2543		**CREATIVE CONTENT DESIGNERS PROFESSIONALS**
2543-01	2166-02	Web Designer
2543-02	2166-04	Graphic Designer
2543-03	2166-05	Typographical Designer

MASCO 2020	MASCO 2013	JOB TITLE
2543-04	2166-06	Designer
2543-05	2166-12	Multimedia Designer
2543-06	2166-13	Publication Designer
2543-07	New	Virtual Environment Designer
2543-08	2166-18	Creative Designer
2543-09	2166-24	Character Designer
2543-10	New	Flash Designer
2543-11	New	Interface Designer
2543-12	New	Systems/Computer Designer
2543-13	New	UI Designer (User Interphase)
2543-14	New	UX Designer (User Experience)
2543-15	2166-19	Design Architect
2543-16	New	Digital Designer
2543-17	New	Creative Team Leader
2543-18	New	Character Rigger
2543-19	New	System Technical Writer
2611		**LAWYERS**
2611-01	2611-01	Legal Officer Grade L41
2611-02	2611-08	Executive Officer (Legal) Grade 41
2611-03	2611-09	Syariah Officer Grade LS41
2611-04	2611-13	Executive Officer (Legal) Grade 9
2611-05	2611-15	Executive Officer (Legal) Grade L5
2611-06	2611-17	Federal Counsel Government Service
2611-07	2611-18	Legal Adviser
2611-08	2611-19	Prosecutor
2611-09	2611-20	Lawyer
2611-10	2611-21	Legal Executive
2611-11	2611-22	Lawyer, Syariah
2611-12	2611-23	Lawyer, Criminal
2611-13	2611-24	Lawyer, Litigation
2611-14	2611-25	Lawyer, Conveyancing
2611-15	2611-26	Lawyer, Civil
2611-16	2611-27	Advocate
2611-17	2611-28	Solicitor
2611-18	2611-29	Barrister
2611-19	New	Executive Officer (Legal) Grade 48
2611-20	2619-14	Jurist
2611-21	2619-01	Notary
2611-22	New	Legal Officer Grade 23
2612		**JUDGES**
2612-01	2612-01	Judge
2612-02	2612-02	Magistrate
2612-03	2612-03	Judge, Native Court
2612-04	2612-04	Judge, Federal Court
2612-05	2612-05	Judge, Sessions Court
2612-06	2612-06	Judge, High Court
2612-07	2612-07	Judge, Syariah Court
2612-08	2612-08	Judge, Industrial Court
2612-09	New	President, Industrial Court
2619		**LEGAL PROFESSIONALS NOT ELSEWHERE CLASSIFIED**
2619-01	2619-02	Commissioner for Oaths
2619-02	2619-03	Registrar of Court
2619-03	2619-04	Trust Officer
2619-04	2619-05	Public Trustee
2619-05	2619-06	Official Assignee
2619-06	2619-07	Bankruptcy Officer

MASCO 2020	MASCO 2013	JOB TITLE
2619-07	2619-08	Coroner
2619-08	2619-09	Court Receiver and Liquidator
2619-09	2619-10	Handwriting Expert
2619-10	2619-11	Parliamentary Drafter
2619-11	2619-12	Insurance Claims Arbitrator
2619-12	2619-13	Appeals Referee, Social Security Claims
2619-13	New	Parliamentary Secretary
2711		**HOTEL PROFESSIONALS**
2711-01	2711-01	Guest Service Officer
2711-02	2711-02	Hotel Operations Executive
2711-03	2711-03	Food and Beverage Guest Services Executive
2711-04	New	Executive Concierge Hotel
2711-05	2711-05	Guest Service Executive
2711-06	2711-06	Front Desk Executive
2711-07	New	Housekeeping Executive
2711-08	New	Hotel Management Executive
2711-09	New	Hotel Event Executive
2711-10	5151-05	Executive Housekeeper
2712		**RESTAURANT PROFESSIONALS**
2712-01	2713-02	Food Preparation Executive
2712-02	2713-03	Kitchen Administrator
2712-03	2713-04	Food and Beverage Personnel
2712-04	2713-05	Food and Beverage Executive
2712-05	2713-06	Food and Beverage Administrator
2712-06	2713-07	Food and Beverage Captain
2712-07	2713-08	Food and Beverage Coordinator
2712-08	New	Chef de Cuisine
2712-09	3641-03	Executive Chef
2712-10	3641-02	Head Chef
2811		**ARCHIVISTS AND CURATORS**
2811-01	2811-01	Archives Officer Grade S41
2811-02	2811-02	Curator Grade S41
2811-03	2811-05	Archivist
2811-04	2811-06	Curator
2811-05	2811-07	Museum Curator
2811-06	2811-08	Art Gallery Curator
2812		**LIBRARIANS AND RELATED INFORMATION PROFESSIONALS**
2812-01	2812-01	Librarian Grade S41
2812-02	2812-02	Executive Officer (Library) Grade 41
2812-03	2812-05	Executive Officer (Library) Grade 9
2812-04	2812-08	Library Executive
2812-05	2812-09	Librarian
2812-06	2812-10	Bibliographer
2812-07	2812-11	Librarian, Audio-Visual
2812-08	2812-12	Librarian, Film
2812-09	2812-13	Documentalist
2812-10	2812-14	Cataloguer
2821		**ECONOMISTS**
2821-01	2821-01	Economic Affairs Officer Grade E41
2821-02	2821-03	Executive Officer (Economic) Grade 9
2821-03	2821-05	Econometrician
2821-04	2821-06	Economist
2821-05	2821-07	Economist, Econometrician
2821-06	2821-08	Economic Adviser

MASCO 2020	MASCO 2013	JOB TITLE
2821-07	2821-09	Economic Analyst
2821-08	2821-10	Labour Economist
2821-09	2821-11	Home Economist
2822		**SOCIOLOGISTS, ANTHROPOLOGISTS AND RELATED PROFESSIONALS**
2822-01	2822-03	Sociologist
2822-02	2822-04	Anthropologist
2822-03	2822-05	Archaeologist
2822-04	2822-06	Geographer
2822-05	2822-07	Penologist
2822-06	2822-08	Criminologist
2822-07	2822-09	Ethnologist
2822-08	New	Sociologist, Social Pathology
2823		**PHILOSOPHERS, HISTORIANS AND POLITICAL SCIENTISTS**
2823-01	2823-01	Philosopher
2823-02	2823-02	Political Philosopher
2823-03	2823-03	Historian
2823-04	2823-04	Political Scientist
2823-05	New	Genealogist
2824		**PSYCHOLOGISTS**
2824-01	2824-01	Psychology Officer Grade S41
2824-02	2824-02	Executive Officer (Psychology) Grade 41
2824-03	2824-05	Psychologists
2824-04	2824-06	Clinical Psychologist
2824-05	2824-07	Educational Psychologist
2824-06	2824-08	Organizational Psychologist
2824-07	2824-09	Psychotherapist
2824-08	2824-10	Sports Psychologist
2825		**SOCIAL WORK AND COUNSELING PROFESSIONALS**
2825-01	2825-01	Community Development Officer Grade S41
2825-02	2825-03	Social Worker, Professional
2825-03	2825-04	Counselor
2825-04	2825-05	Marriage Counselor
2825-05	2825-06	Addictions Counsellor
2825-06	2825-07	Bereavement Counsellor
2825-07	2825-08	Child and Youth Counsellor
2825-08	2825-09	Family Counsellor
2825-09	2825-10	Parole Officer
2825-10	2825-11	Probation Officer
2825-11	2825-12	Women's Welfare Organizer
2825-12	3622-01	Youth and Sports Officer Grade S41
2825-13	2919-07	Anti-Drug Officer Grade S41
2826		**RELIGIOUS PROFESSIONALS**
2826-01	2826-01	Islamic Affairs Officer Grade S41
2826-02	2826-03	Religious Officer
2826-03	2826-04	Mufti
2826-04	2826-05	Imam
2826-05	2826-06	Kadhi
2826-06	2826-07	Priest, Church
2826-07	2826-08	Priest, Temple
2826-08	2826-09	Religious Professionals
2831		**AUTHORS AND RELATED WRITERS**
2831-01	2831-01	Author
2831-02	2831-02	Biographer

MASCO 2020	MASCO 2013	JOB TITLE
2831-03	2831-03	Novelist
2831-04	2831-04	Playwright
2831-05	2831-05	Essayist
2831-06	2831-06	Humorist
2831-07	2831-07	Versifier
2831-08	2831-08	Critic
2831-09	2831-09	Writer, Comedy
2831-10	2831-10	Poet
2831-11	2831-11	Copywriter, Advertising
2831-12	2831-12	Lyricist
2831-13	2831-13	Fiction Writer
2831-14	2831-14	Song Writer
2831-15	2831-15	Publicity Writer
2831-16	2831-16	Script Writer
2831-17	2831-17	Technical Writer
2831-18	2831-18	Editor
2831-19	2831-19	Book Editor
2831-20	2831-20	Proofreader
2831-21	2831-21	Interactive Media Writer
2831-22	2831-22	Speech Writer
2831-23	2832-02	Publications Officer Grade N41
2831-24	New	Sasterawan
2832		**JOURNALISTS**
2832-01	2832-05	News Reporter
2832-02	2832-06	Columnist
2832-03	2832-07	Journalist
2832-04	2832-08	Political Editor
2832-05	2832-09	Radio and Television News Broadcasting Editor
2832-06	2832-10	Copy Editor
2832-07	2832-11	Newspaper Editor
2832-08	2832-12	Newspaper Reporter
2832-09	2832-13	Sports Writer
2832-10	2832-14	Sub Editor
2832-11	2832-15	Television/Radio News Reporter
2832-12	2832-16	Press Editor
2832-13	2832-17	Court Reporter
2832-14	New	Journalist Grade S29
2832-15	2832-01	Journalist, Grade S41
2833		**TRANSLATORS, INTERPRETERS AND OTHER LINGUISTS**
2833-01	2833-02	Simultaneous Interpreters Grade N41
2833-02	2833-03	Translator
2833-03	2833-04	Interpreter
2833-04	2833-05	Philologist
2833-05	2833-06	Lexicographer
2833-06	2833-07	Sign Language Interpreter
2833-07	2833-08	Subtitler
2833-08	New	Language Planner Grade S41
2833-09	New	Interpreter Grade LA29
2833-10	2833-01	Interpreter Grade LA19
2841		**VISUAL ARTISTS**
2841-01	2841-01	Sculptor
2841-02	2841-02	Cartoonist
2841-03	2841-03	Painting Restorer
2841-04	2841-04	Fine Art Engraver-Etcher
2841-05	2841-05	Artist
2841-06	2841-06	Landscape Artist

MASCO 2020	MASCO 2013	JOB TITLE
2841-07	2841-07	Paint Artist
2841-08	2841-08	Ceramic Artist
2841-09	2841-09	Commercial Artist
2841-10	2841-10	Photo Restorer
2841-11	2841-11	Portrait Painter
2842		**MUSICIANS, SINGERS AND COMPOSERS**
2842-01	2842-01	Musician Grade B41
2842-02	2842-02	Musicologist
2842-03	2842-03	Instrumentalist
2842-04	2842-04	Adiguru - Music
2842-05	2842-05	Adiguru - Shadow Puppet Theatre
2842-06	2842-06	Musician
2842-07	2842-07	Orchestrator
2842-08	2842-08	Band Leader
2842-09	2842-09	Music Director
2842-10	2842-10	Music Composer
2842-11	2842-11	Music Arranger
2842-12	2842-12	Vocal Group Conductor
2842-13	2842-13	Orchestra Conductor
2842-14	2842-14	Band Conductor
2842-15	2842-15	Singer
2842-16	2842-16	Music Conductor
2842-17	New	Musician Grade B43
2842-18	New	Musician Grade B47
2842-19	New	Musician Grade B51
2842-20	New	Musician Grade B53
2843		**DANCERS AND CHOREOGRAPHERS**
2843-01	2843-02	Dancer
2843-02	2843-03	Dancer, Night Club
2843-03	2843-04	Choreographer
2843-04	2843-05	Dance Director
2843-05	2843-06	Dance Arranger
2843-06	2843-07	Dance Instructor
2844		**FILM, STAGE AND RELATED DIRECTORS AND PRODUCERS**
2844-01	2844-02	Producer Grade B41
2844-02	2844-03	Animation Producer
2844-03	2844-04	Multimedia Producer
2844-04	2844-05	Motion Picture Director
2844-05	2844-06	Motion Picture Photography Director
2844-06	2844-07	Stage Director
2844-07	2844-08	Radio and Television Broadcasting Director
2844-08	2844-09	Radio and Television Director
2844-09	2844-10	Theatre Director
2844-10	2844-11	Producer, Motion Picture
2844-11	2844-12	Film and Video Editor
2844-12	2844-13	Stage Producer
2844-13	2844-14	Theatre Producer
2844-14	2844-15	Producer, Television
2844-15	2844-16	Documentary Director
2844-16	2844-17	Director Of Photography
2844-17	2844-18	Television Or Radio Technical Director
2844-18	New	Technical Producer
2844-19	New	Producer Grade B43
2844-20	New	Producer Grade B47
2844-21	New	Producer Grade B51
2844-22	New	Producer Grade B53

MASCO 2020	MASCO 2013	JOB TITLE
2845		**ACTORS**
2845-01	2845-01	Actor
2845-02	New	Impersonator
2845-03	2845-03	Story Teller
2845-04	2845-05	Mime Artist
2846		**ANNOUNCERS ON RADIO, TELEVISION AND OTHER MEDIA**
2846-01	2846-01	Disk-jockey (DJ)
2846-02	2846-02	Radio Announcer
2846-03	2846-03	Television Announcer
2846-04	2846-04	Master Of Ceremonies
2846-05	2846-05	Compere
2846-06	2846-06	Newscaster
2846-07	2846-07	Commentator
2846-08	2846-08	Interviewer, Media
2846-09	2846-09	Presentation Support Assistant
2846-10	2846-10	Programme Preparer
2846-11	2846-11	News Anchor
2846-12	2846-12	Sports Announcer
2846-13	New	Host
2847		**CLOWNS, MAGICIANS, ACROBATS AND RELATED PROFESSIONALS**
2847-01	2847-01	Acrobat
2847-02	2847-02	Contortionist
2847-03	2847-03	Magician
2847-04	2847-04	Clown
2847-05	2847-05	Mimic
2847-06	2847-06	Ventriloquist
2847-07	2847-08	Snake Charmer
2847-08	2847-09	Circus Performer, Animal
2847-09	2847-10	Juggler
2847-10	2847-11	Puppeteer
2847-11	2847-12	Stand-up Comedian
2848		**ANIMAL KEEPERS AND TRAINERS**
2848-01	2848-01	Trainer In Zoological, Bird and Aquatic Parks
2848-02	2848-02	Trainer In Crocodile Farm
2848-03	2848-03	Dog Trainer
2848-04	2848-04	Horse Trainer
2848-05	New	Elephant Trainer (Mahout)
2849		**CREATIVE AND PERFORMING ARTISTS NOT ELSEWHERE CLASSIFIED**
2849-01	2844-01	Cultural Officer Grade B41
2849-02	New	Cultural Officer Grade B43
2849-03	New	Cultural Officer Grade B47
2849-04	New	Cultural Officer Grade B51
2849-05	New	Cultural Officer Grade B53
2849-06	New	Freelance Speaker
2911		**PROFESSIONAL CUSTOMS AND BORDER INSPECTORS**
2911-01	2911-01	Superintendent of Custom Grade WK41
2911-02	2911-02	Immigration Superintendent Grade KP41
2911-03	New	Immigration Consultant
2912		**PROFESSIONAL TAXATION AND EXCISE OFFICIALS**
2912-01	2912-01	Executive Officer (Appraising) Grade 41
2912-02	2912-03	Appraising Executive Officer
2912-03	2912-04	Valuation Officer

MASCO 2020	MASCO 2013	JOB TITLE
2912-04	2912-05	Excise Officer
2912-05	2912-06	Tax Officer
2912-06	New	Executive Officer (Appraising) Grade 48
2913		**PROFESSIONAL GOVERNMENT SOCIAL BENEFIT OFFICIALS**
2913-01	2913-01	Social Benefits Officer
2913-02	2913-02	Social Security Claims Officer
2913-03	New	Executive Officer (PERKESO) Grade 23
2914		**PROFESSIONAL GOVERNMENT LICENSING OFFICIALS**
2914-01	2914-01	Enforcement Officer Grade KP41
2914-02	2914-03	Executive Officer (Enforcement) Grade L5
2914-03	2914-05	Licensing Officer
2914-04	2914-06	Passport Issuing Officer
2914-05	2914-07	Building Permit (Licensing) Officer
2914-06	2914-08	Business Permit (Licensing) Officer
2915		**PROFESSIONAL POLICE OFFICIALS**
2915-01	2915-01	Senior Police Officer Grade YA13
2916		**PROFESSIONAL CIVIL DEFENCE OFFICIALS**
2916-01	2916-01	Civil Defence Officer Grade KP41
2916-02	2916-03	Civil Defence Officer
2916-03	2919-08	Industrial Relations Officer Grade S41
2916-04	2919-01	Security Officer Grade KP41
2916-05	2919-02	Executive Officer (Security) Grade 41
2916-06	2919-03	Superintendent of Fire Brigade Grade KB41
2916-07	2919-04	Superintendent of Prison Grade KA41
2916-08	2919-10	Maritime Superintendent Officer Grade T13
2919		**REGULATORY GOVERNMENT PROFESSIONALS NOT ELSEWHERE CLASSIFIED**
2919-01	New	Control Room Officer
2919-02	2919-05	Registration Officers Grade KP41
2919-03	2919-06	Investigation Officer Grade P41
2919-04	New	Investigation Officer Grade P43
2919-05	New	Investigation Officer Grade P47
2919-06	New	Investigation Officer Grade P51
2919-07	New	Investigation Officer Grade P53
3	**3**	**TECHNICIANS AND ASSOCIATE PROFESSIONALS**
3111		**CHEMICAL AND PHYSICAL SCIENCE TECHNICIANS**
3111-01	3111-01	Laboratory Assistant Grade C19
3111-02	3111-04	Research Assistant Grade Q19
3111-03	3111-05	Film Laboratory Assistant Grade C19
3111-04	3111-06	Physics Technician
3111-05	3111-07	Geophysics Technician
3111-06	3111-08	Chemistry Technician
3111-07	3111-09	Physics Science Laboratory Technician
3111-08	3111-10	Physical Science Technician
3111-09	3111-11	Physics Laboratory Assistant
3111-10	3111-12	Chemistry Laboratory Assistant
3111-11	3111-13	Physical Science Laboratory Assistant
3111-12	3111-14	Soil Technician
3111-13	3111-15	Soil Laboratory Assistant
3111-14	3111-16	Meteorological Technician
3111-15	3111-17	Meteorological Assistant
3111-16	3111-18	Geological Technician
3111-17	3111-19	Geological Laboratory Assistant

MASCO 2020	MASCO 2013	JOB TITLE
3111-18	3111-20	Field Laboratory Research Conductor
3111-19	3111-21	Astronomy Technician
3111-20	3111-22	Oceanography Technician
3111-21	3111-23	Laboratory Assistant
3111-22	3111-24	Aerological Technician
3111-23	3111-25	Avalanche Controller
3111-24	3111-26	Climate Data Processor
3111-25	3111-27	Climate Service Technician
3111-26	3111-28	Meteorological Inspector
3111-27	New	Weather station Assistant
3111-28	3111-30	Operations Technician, Weather Station
3111-29	3111-31	Surface Weather Observer
3111-30	New	Geoscience Technician Grade C19
3111-31	3111-01	Laboratory Assistant Grade K1
3111-32	New	Laboratory Technician
3111-33	2112-02	Assistant Meteorological Officer Grade C29
3111-34	New	Assistant Geoscience Officer Grade C29
3111-35	2113-04	Assistant Film Laboratory Officer C29
3111-36	2426-05	Assistant Scientific Officer Grade C29
3111-37	2426-03	Assistant Research Officer Grade Q29
3111-38	3119-19	Process Technician
3111-39	3119-21	Forensic Science Technician
3112		**CIVIL ENGINEERING TECHNICIANS**
3112-01	3112-04	Industrial Instrument Technician
3112-02	3112-05	Civil Engineering Technician
3112-03	3112-06	Civil Engineering Assistant
3112-04	3112-07	Civil Engineering Estimator
3112-05	3112-08	Clerk-Of-Work
3112-06	3112-10	Surveying Technical Assistant
3112-07	3112-11	Surveying Assistant
3112-08	3112-12	Engineering Designer
3112-09	3112-13	Civil Engineering Supervisor
3112-10	3112-14	Tunnel Boring Machine Technician
3112-11	3112-15	Building Inspector
3112-12	3112-16	Geotechnical Technician
3112-13	New	Fire Inspector
3112-14	3112-18	Surveying Technician
3112-15	New	Construction Technician
3112-16	New	Building Contractor
3112-17	New	Process Instrument Technician
3112-18	New	Assistant Surveyor, Building
3112-19	New	Assistant Engineer Grade JA29
3112-20	2142-06	Assistant Executive Officer (Engineering) Grade 31
3112-21	2142-08	Assistant Executive Officer (Technician) Grade L8
3112-22	2142-09	Assistant Executive Officer (Engineering) Grade L8
3112-23	2142-41	Assistant Engineer
3112-24	New	Engineering Assistant Executive Officer
3112-25	New	Assistant Civil Engineer
3112-26	New	Operation Technician
3112-27	New	Green Building Facilities Maintenance Technician
3112-28	New	Green Building Facilities Maintenance Assistant Technician
3112-29	New	Building Demolition Technician
3112-30	New	Assistant Engineer Maintenance
3112-31	3119-07	Quantity Surveying Technician
3112-32	2149-04	Assistant Quantity Surveyor Grade JA29
3112-33	New	Quantity Surveyor Assistant
3112-34	New	Assistant Engineer Grade 19
3112-35	New	Assistant Quantity Surveyor Grade 19

MASCO 2020	MASCO 2013	JOB TITLE
3112-36	New	Building Surveying Technical Assistant Grade 19
3112-37	2149-05	Assistant Building Surveyor Grade J29
3112-38	New	Fire Maintenance Leader
3112-39	New	Fire Maintenance Technician
3113		**ELECTRICAL ENGINEERING TECHNICIANS**
3113-01	3113-02	Electrical Engineering Technician
3113-02	3113-03	Wire Cutting Technician
3113-03	3113-04	High Voltage Electrical Engineering Technician
3113-04	3113-05	Electrical Engineering Assistant
3113-05	3113-06	Electrical Technical Assistant
3113-06	3113-07	Electrical Supervisor
3113-07	3113-08	Electrical and Instrument Supervisor
3113-08	3113-09	Electrical High Voltage System Engineering Assistant
3113-09	3113-10	Electrical Electric Power Transmission Engineering Technician
3113-10	3113-11	Electrical Engineering Estimator
3113-11	3113-12	Car Electrical Technician
3113-12	New	Fibre Optic Cabel Splicer
3113-13	0321-06	Electrical Technician
3113-14	New	Electrical High Voltage Technician
3113-15	New	Debug Technician
3113-16	New	Assistant Electrical Engineer
3114		**ELECTRONICS ENGINEERING TECHNICIANS**
3114-01	3114-02	Electronics Engineering Technician
3114-02	3114-04	Electronics Engineering Estimator
3114-03	3114-05	Engineering Assistant Electronics
3114-04	New	Electronics Design Technician
3114-05	New	Wafer Fabrication Electronic Technicians
3114-06	New	Electronics Technician
3115		**MECHANICAL ENGINEERING TECHNICIANS**
3115-01	3115-03	Aerospace (Mechanical) Engineering Technician
3115-02	3115-04	Aeronautical Engineering Technician
3115-03	3115-05	Automobile Engineering Technician
3115-04	3115-06	Mechanical Engineering Technician
3115-05	3115-07	Mechanical Engineering Technician, Industrial Machinery and Tools
3115-06	3115-08	Mechanical Engineering Technician, Motors and Engines
3115-07	3115-09	Mechanical Engineering Technician, Lubrication
3115-08	3115-10	Mechanical Engineering Technician, Instruments
3115-09	3115-11	Mechanical Engineering Technician, Agriculture
3115-10	3115-12	Refrigeration and Air-Conditioning System Engineering Technician
3115-11	3115-13	Rotary Technician
3115-12	3115-14	Aeronautical (Mechanical) and Equipment Engineering Assistant
3115-13	3115-15	Automobile Engineering Assistant
3115-14	3115-16	Mechanical Engineering Assistant
3115-15	3115-17	Mechanical Engineering Estimator
3115-16	3115-18	Dockmaster, Dry Dock
3115-17	3115-19	Dockmaster, Graving Dock
3115-18	3115-20	Marine Engineering Technician
3115-19	3115-21	Marine Engineering Assistant
3115-20	3115-22	Mechanical Engineering Technician, Ship Construction
3115-21	3115-23	Hydraulic Hose Technician
3115-22	3115-24	Test Technician (Mechanical)
3115-23	3115-25	Automation Robot Technician
3115-24	3115-26	Mechatronics Technician
3115-25	3115-27	Machine Technician
3115-26	3115-29	Aeronautics Engineering Technician
3115-27	New	CNC Technician (Computer Numerical Control)

MASCO 2020	MASCO 2013	JOB TITLE
3115-28	New	Welding Technician
3115-29	New	Steelmaking Technician
3115-30	New	Wafer Fabrication Mechanical Technicians
3115-31	New	Hygiene Technician 1
3115-32	New	Mechanical Technician
3115-33	New	CNC Supervisor (Computer Numerical Control)
3115-34	New	Motor Vehicles Examiner Grade AB19
3115-35	New	Assistant Industrial Automation Engineer
3115-36	New	Assistant CAD/CAM Engineer (Computer-Aided Design and Manufacturing)
3115-37	New	Assistant Mechatronic Engineer
3115-38	New	CAD/CAM Technician (Computer-Aided Design and Manufacturing)
3115-39	New	Fan Repair Technician
3115-40	New	Rope Access Technician
3115-41	New	Spinning Technician
3115-42	New	Knitting Technician
3115-43	New	Weaving Technician
3115-44	New	AutoCad Drafter
3115-45	New	Marking Specialist
3115-46	New	Motor Vehicles Examiner Grade AB29
3115-47	3119-20	Robotics Technician
3115-48	New	Equipment Technician
3115-49	New	Assistant Equipment Engineer
3115-50	New	Assistant Welding Engineer
3115-51	New	Calibration Technician
3115-52	New	Hygiene Technician 2
3116		**CHEMICAL ENGINEERING TECHNICIANS**
3116-01	3116-01	Chemical Engineering Technician
3116-02	3116-02	Chemical Process Engineering Technician
3116-03	3116-03	Petroleum Engineering Technician
3116-04	3116-04	Oil Technologist
3116-05	3116-05	Chemical Petroleum Technician
3116-06	3116-06	Petroleum Refining Technician
3116-07	3116-07	Petroleum Refining Laboratory Assistant
3116-08	3116-08	Petroleum and Natural Gas Analyst
3116-09	3116-09	Chemical Engineering Estimator
3116-10	3116-10	Chemical Engineering Assistant
3116-11	New	Technician, Process Engineering
3117		**MINING AND METALLURGICAL TECHNICIANS**
3117-01	3117-02	Metallurgical Technician
3117-02	3117-03	Extractive Metallurgical Technician
3117-03	3117-04	Petroleum and Natural Gas Extraction Technician
3117-04	3117-05	Metallurgical Laboratory Assistant
3117-05	3117-06	Metallurgy Assay Technician
3117-06	3117-07	Metallurgy Physics Technician
3117-07	3117-08	Metallurgy Foundry Technician
3117-08	3117-09	Metallurgy Radioactive Minerals Technician
3117-09	3117-10	Metallurgy Physics Assistant
3117-10	3117-11	Engineering Mining Technician
3117-11	3117-12	Mining Assistant
3117-12	3117-13	Oil and Gas Wells Explosive Technician
3117-13	3117-14	Petroleum and Natural Gas Extraction Assistant
3117-14	3117-15	Oil and Gas Well Acidiser
3117-15	3117-16	Well Acidising Treater
3117-16	3117-17	Fuel Pump Technician
3117-17	3117-18	Coal Mine Technician
3117-18	3117-19	Block Boring Technician
3117-19	3117-20	Mines Inspector

MASCO 2020	MASCO 2013	JOB TITLE
3117-20	New	Extractive Metallurgical Assistant
3117-21	New	Foundry Technician
3117-22	New	Green Technology Fuel Production Technician
3117-23	New	Associate Field Professional
3118		**DRAUGHTSPERSONS AND SURVEYING TECHNICIANS**
3118-01	3118-01	Draughtsperson (Architecture) Grade JA19
3118-02	3118-04	Draughting Technician
3118-03	3118-05	Draughtsperson
3118-04	3118-06	Draughtsperson, Die
3118-05	3118-07	Draughtsperson, Geological
3118-06	3118-08	Draughtsperson, Illustration Technique
3118-07	3118-09	Draughtsperson, Jig & Tool
3118-08	3118-10	Draughtsperson, Cartographical
3118-09	3118-11	Draughtsperson, Aeronautical Engineering
3118-10	3118-12	Draughtsperson, Civil Engineering
3118-11	3118-13	Draughtsperson, Electrical Engineering
3118-12	3118-14	Draughtsperson, Electronics Engineering
3118-13	3118-15	Draughtsperson, Marine Engineering
3118-14	3118-16	Draughtsperson, Mechanical Engineering
3118-15	3118-17	Draughtsperson, Heating and Ventilation Systems Engineering
3118-16	3118-18	Draughtsperson, Lithographic
3118-17	3118-19	Draughtsperson, Mining
3118-18	3118-20	Draughtsperson, Architectural
3118-19	3118-21	Draughtsperson, Structural
3118-20	3118-22	Draughtsperson, Technical
3118-21	3118-23	Draughtsperson, Topographical
3118-22	3118-24	Tracer
3118-23	3118-25	Engineering Illustrator
3118-24	New	Geospatial Technician
3118-25	New	Landscape Technician
3118-26	New	Assistant Architectural Officer Grade JA29
3118-27	New	Draughtsperson (Civil Engineering) Grade JA19
3118-28	New	Assistant Landscape Architect Grade JA29
3118-29	New	Assistant Land Officer (Peninsular) NT29
3118-30	New	Assistant Land Admini Officer (Sabah and Sarawak) Grade NT29
3118-31	New	Assistant Surveyor Grade JA29
3118-32	New	Assistant Urban and Rural Planning Officer Grade JA29
3118-33	New	Assistant Architectural Officer Grade 19
3119		**INDUSTRIAL AND PRODUCTION TECHNICIANS**
3119-01	3112-09	Technician
3119-02	New	Technician Grade P4
3119-03	3119-24	Maintenance Technician
3119-04	3119-08	Methods Engineering Technician
3119-05	3119-09	Engineering Technician, Work Study
3119-06	3119-10	Engineering Technician, Time and Motion Study
3119-07	3119-11	Engineering Technician, Industrial Efficiency
3119-08	3119-12	Engineering Technician, Safety
3119-09	3119-13	Engineering Technician, Value
3119-10	3119-14	Engineering Technician, Production
3119-11	3119-15	Engineering Technician, Planning
3119-12	3119-16	Engineering Technician, Systems
3119-13	3119-17	Engineering Technician, Industrial Layout
3119-14	3119-18	Assistant Engineering, Production
3119-15	3119-22	Engineering Technician (production)
3119-16	New	Fire Investigator
3119-17	3119-25	Warehouse Technician
3119-18	3119-26	Material Store Technician

MASCO 2020	MASCO 2013	JOB TITLE
3119-19	3119-27	Quality Control Technician
3119-20	3119-28	Cutting Technician
3119-21	3119-29	Log Yard Technician
3119-22	New	Engineering Assistant, Time and Motion Study
3119-23	New	Industrial Technician
3119-24	New	Process Technician Grade K2
3119-25	New	Industrial Maintenance Technician
3119-26	New	Production Technician
3119-27	New	Moulding Technician
3119-28	New	Quality Assurance Engineering Technician
3119-29	New	Assistant Factory and Machinery Inspector Grade JA29
3119-30	New	Fibreglass Production Technician
3119-31	New	Dyeing Technician
3119-32	New	Textile Finishing Technician
3119-33	New	Printing Technician
3119-34	New	Photocopier Technician
3119-35	New	Insect Control Technician
3119-36	New	Solid Waste Technician
3119-37	New	Solid Waste Assistant Technician
3119-38	New	Water Technician
3119-39	New	Water Assistant Technician
3119-40	New	Waste Water Technician
3119-41	New	Waste Water Assistant Technician
3119-42	New	Painting Technician
3119-43	3139-01	Food Processing Technician
3119-44	3139-05	Crankshaft Grinding Technician
3119-45	3139-09	Agro-Based Biotech Research Technician
3119-46	3139-10	Aquaculture Biotech Production Technician
3119-47	New	Technician Assistant
3119-48	New	Test Technician
3119-49	New	Water Quality Technician
3119-50	New	Tooling Technician
3121		**MINING SUPERVISORS**
3121-01	3121-01	Mine Supervisor
3121-02	3121-02	Quarry Supervisor
3121-03	New	Slickline Supervisor
3121-04	New	Service Supervisor/Leader
3122		**MANUFACTURING SUPERVISORS**
3122-01	3122-01	Manufacturing Supervisor
3122-02	3122-02	Production Supervisor
3122-03	3122-03	Finishing Supervisor
3122-04	3122-04	Packaging Supervisor
3122-05	3122-05	Compounding Supervisor
3122-06	3122-06	Finished Goods Supervisor
3122-07	3122-07	Cutting Supervisor
3122-08	3122-08	Sawmill Supervisor
3122-09	3122-09	Plywood Inspection Supervisor
3122-10	3122-10	Sawyer Supervisor
3122-11	3122-11	Chief Hookman Supervisor
3122-12	3122-12	Log Yard Supervisor
3122-13	3122-13	Area Co-Ordinator, Manufacturing
3122-14	3122-14	Quality Control Inspector
3122-15	3122-15	Quality Control Supervisor
3122-16	3122-16	Quality Controller
3122-17	3122-17	Quality Checker Tester
3122-18	New	Production Supervisor, Halal Food Manufacturing
3122-19	New	Quality Assurance Supervisor, Halal Food Manufacturing

MASCO 2020	MASCO 2013	JOB TITLE
3122-20	New	Quality Assurance Supervisor, Halal Meat Processing
3122-21	New	Technical Supervisor
3122-22	New	Non-destructive Testing (NDT) Inspector
3122-23	3129-04	Supervisor
3122-24	3129-06	Store Supervisor
3122-25	3129-07	Shift Supervisor
3122-26	3129-08	Maintenance Supervisor
3122-27	New	Supervisor Grade P4
3122-28	New	Supervisor, Halal Slaughterhouse
3122-29	New	Warehouse Supervisor, Halal Logistics Operation
3122-30	New	Assistant Supervisor
3122-31	New	Head of Supervisory
3122-32	New	Facilities Supervisor
3122-33	New	Delivery Supervisor
3122-34	3139-07	Industrial Robot Controller
3123		**CONSTRUCTION SUPERVISORS**
3123-01	3123-01	Operation Supervisor
3123-02	3123-02	Project Supervisor
3123-03	3123-03	Construction Supervisor
3123-04	3123-04	Site Supervisor
3123-05	New	Site Coordinator
3123-06	New	Site Safety Supervisor
3123-07	New	Paving Supervisor
3123-08	New	Landscape Supervisor
3123-09	New	Drilling Suppervisor
3123-10	3129-02	Environmental Supervisor
3123-11	New	Supervisor, Building Construction
3123-12	New	Supervisor, Building Operations
3123-13	New	Supervisor, Building Project
3123-14	New	Supervisor, Building Site
3129		**OTHER SUPERVISOR NOT ELSEWHERE CLASSIFIED**
3129-01	New	Cleaning Supervisor
3131		**POWER PRODUCTION PLANT OPERATORS**
3131-01	3131-01	Electric Power Load Dispatcher
3131-02	3131-02	Electrical Switchboard Operator
3131-03	3131-03	Hydroelectric Station Operator
3131-04	3131-04	Power Generating Plant Operator
3131-05	3131-05	Turbine Operator, Power Station
3131-06	3131-06	Powerhouse Fabricator
3131-07	3131-07	Electric Power Plant Operator
3131-08	3131-08	Hydroelectric Power Plant Operator
3131-09	3131-09	Nuclear Power Plant Operator
3131-10	3131-10	Solar Power Plant Operator
3131-11	3131-11	Distribution Control Operator
3131-12	3131-12	Generating Station Operator
3131-13	3131-13	Power System Operator
3131-14	New	Biomass Energy Generation Plant Operator (Fuel Preparation)
3131-15	New	Biomass Energy Generation Plant Supervisor (Raw Material Handlings)
3131-16	New	Solar Cell Technician
3131-17	New	Nuclear Power Reactor Operator
3131-18	New	Biofuel Plant Technician
3131-19	New	Biofuel Plant Operation Supervisor
3131-20	New	Biofuel Plant Operator
3131-21	New	Operator, Control-Panel: Nuclear Reactor
3131-22	New	Dispatcher, Load: Electrical (Power Station)
3131-23	New	Operator, Control-Panel: Power (Production)

MASCO 2020	MASCO 2013	JOB TITLE
3131-24	New	Operator, Generator: Electric Power
3131-25	New	Operator, Geo-Thermal Power Plant
3131-26	New	Operator, Natural Gas Plant: Electric Power Generating
3131-27	New	Operator, Nuclear Power Plant
3131-28	New	Operator, Rectifier: Electric Current
3131-29	New	Operator, Steam Power Plant
3131-30	New	Operator, Switchboard: Electrical Power Station
3131-31	New	Operator, Switchboard: Power Station Generator
3131-32	New	Operator, Tidal Power Plant
3131-33	New	Operator, Turbine: Electricity Generation
3131-34	New	Operator, Wind-Energy Plant: Electric Power Generation
3132		**INCINERATOR AND WATER TREATMENT PLANT OPERATORS**
3132-01	3132-01	Stationary Engine Operator
3132-02	3132-02	Compressor Operator
3132-03	3132-03	Compressor Gas Operator
3132-04	3132-04	Incinerator Plant Operator
3132-05	3132-05	Pumping Station Operator
3132-06	3132-06	Heating and Ventilation Equipment Operator
3132-07	3132-07	Refrigeration System Operator
3132-08	3132-08	Sewage Plant Operator
3132-09	3132-09	Water Treatment Plant Operator
3132-10	3132-10	Machine Operator, Ice Production
3132-11	3132-11	Hopper Operator
3132-12	3132-12	Incinerator Operator
3132-13	3132-13	Liquid Waste Process Operator
3132-14	3132-14	Waste Water Operator
3132-15	3119-04	Water Supply Superintendant Grade J19
3132-16	3119-03	Irrigation Inspector Grade J19
3132-17	New	Incineration Plant Supervisor
3132-18	New	Operator, furnace: refuse disposal
3132-19	New	Operator, Control-Panel: Incinerator
3132-20	New	Operator, Control-Panel: Water Treatment
3132-21	New	Operator, Filter: Water
3132-22	New	Operator, Purification Plant: Water
3132-23	New	Operator, Water Purification Plant
3133		**CHEMICAL PROCESSING PLANT CONTROLLERS**
3133-01	3133-01	Chemical Process Technician
3133-02	3133-02	Chemical Plant Supervisor
3133-03	3133-03	Chemical-Heat-Treating-Plant Operator
3133-04	3133-04	Chemical-Filtering and Separating Equipment Operator
3133-05	3133-05	Chemical-Still and Reactor Operator
3133-06	New	Supervisor, Plant
3134		**PETROLEUM AND NATURAL GAS REFINING PLANT OPERATORS**
3134-01	3134-01	Pumpman (Petroleum Refining)
3134-02	3134-02	Stillman (Petroleum Refining)
3134-03	3134-03	Controlman (Petroleum Refining)
3134-04	3134-04	Desulphuriser Operator, Petroleum Refining
3134-05	3134-05	Acetylene Plant Operator
3134-06	3134-06	Gas Plant Operator
3134-07	3134-07	Chlorine Plant Operator
3134-08	3134-08	Oxygen Plant Operator
3134-09	3134-09	Paraffin Plant Operator
3134-10	3134-10	Petroleum Refining Blender
3134-11	3134-11	Petroleum and Natural Gas Refining Treater Operator
3134-12	3134-12	Pumping-Station Petroleum and Natural Gas Operator
3134-13	3134-13	Gases Liquefaction Plant Operator

MASCO 2020	MASCO 2013	JOB TITLE
3134-14	3134-14	Cylinder Filler & Tester (Compressed & Liquefied Gases)
3134-15	3134-15	Operator, Blender/petroleum and Natural Gas Refining (ethyl)
3134-16	3134-16	Operator, Still/petroleum and Natural Gas Refining
3134-17	3134-17	Refinery Process Technician
3134-18	3134-18	Petroleum Process Operator
3134-19	3134-19	Boiler Operator Supervisor
3134-20	New	Plant Field Operator
3134-21	New	Landfill Gas Wells Operator
3134-22	New	Landfill Gas Operation Control Supervisor
3134-23	New	Anaerobic Digester Biogas Plant Supervisor
3134-24	New	Pumpman
3134-25	New	Stillman
3134-26	3139-04	Controlman
3134-27	New	Slickline Operator
3135		**METAL PRODUCTION PROCESS CONTROLLERS**
3135-01	3135-01	Rolling-Mill Metal Manipulator
3135-02	3135-02	Guide Setter, Metal
3135-03	3135-03	Metal Processing Control Operator
3135-04	New	Blast Furnace Operator
3135-05	New	Central Control Caster
3135-06	New	Rolling Mill Control Operator
3139		**PROCESS CONTROL TECHNICIANS NOT ELSEWHERE CLASSIFIED**
3141		**LIFE SCIENCE TECHNICIANS (EXCLUDING MEDICAL)**
3141-01	3141-01	Biological Technician
3141-02	3141-02	Entomological Technician
3141-03	3141-03	Tissue Culture Technician
3141-04	3141-04	Botanical Technician
3141-05	3141-05	Botanical Assistant
3141-06	3141-06	Botanical Research Laboratory Assistant
3141-07	3141-07	Artificial Breeding Technician
3141-08	3141-08	Artificial Breeding Research Laboratory Assistant
3141-09	3141-09	Zoological Technician
3141-10	3141-10	Zoological Research Laboratory Assistant
3141-11	3141-11	Taxidermist
3141-12	3141-12	Research Assistant
3141-13	3141-13	Bacteriology Technician
3141-14	3141-14	Biochemistry Technician
3141-15	3141-15	Herbarium Technician
3141-16	3141-16	Pharmacology Technician
3141-17	3141-17	Serology Technician
3141-18	3141-18	Entomological Assistant
3142		**AGRICULTURAL AND LIVESTOCK TECHNICIANS**
3142-01	3142-04	Agronomy Technician
3142-02	3142-05	Crop Research Technician
3142-03	3142-06	Soil Science Technician
3142-04	3142-07	Floriculture Technician
3142-05	3142-08	Horticulture Technician
3142-06	3142-09	Olericulture Technician
3142-07	3142-10	Pomology Technician
3142-08	3142-11	Plant Nursery Technician
3142-09	3142-12	Irrigator
3142-10	3142-13	Dairy Technician
3142-11	3142-14	Field Crop Technical Officer
3142-12	3142-15	Herd Tester
3142-13	3142-16	Horticultural Technical Officer

MASCO 2020	MASCO 2013	JOB TITLE
3142-14	3142-17	Poultry Technical Officer
3142-15	New	Agricultural Assistant
3142-16	2132-06	Assistant Agricultural Officer Grade G29
3142-17	2132-05	Assistant Land Planning Officer Grade G29
3142-18	New	Supervisor, Halal Livestock Production
3142-19	New	Assistant Park/Estate Manager, Grade G29
3142-20	New	Park/Estate Assistant Grade G19
3142-21	3129-01	Land Scheme Supervisor Grade G19
3143		**FORESTRY TECHNICIANS**
3143-01	3143-03	Arboriculture Technician
3143-02	3143-04	Forestry Technician
3143-03	3143-05	Silviculture Technician
3143-04	2132-07	Assistant Conservator of Forests Grade G29
3143-05	2131-02	Assistant Wildlife Officer Grade G29
3143-06	3142-02	Wildlife Assistant Grade G19
3144		**FISHERY TECHNICIANS**
3144-01	3144-02	Hatchery Technician
3144-02	3144-03	Hatchery Supervisor
3144-03	3144-04	Fishery Technician
3144-04	3144-05	Hatchery Assistant
3144-05	New	Aquaculture Technician
3144-06	New	Fishery Assistant
3144-07	2132-08	Assistant Fisheries Officer Grade G29
3144-08	3144-01	Fishery Assistant Grade G19
3151		**AIRCRAFT TECHNICIANS**
3151-01	3151-02	Air Traffic Safety Technician
3151-02	3151-03	Aircraft Technician
3151-03	3151-04	Aviation Maintenance Technician
3151-04	3151-05	Aircraft Service Technician
3151-05	3151-06	Aircraft Maintenance Technician (Airframes)
3151-06	3151-07	Aircraft Maintenance Technician (Engines)
3151-07	3151-08	Aircraft Restorer
3151-08	3151-09	Airframe and Power Plant Technician
3151-09	3151-10	Airframe Technician
3151-10	3151-11	Helicopter Technician
3151-11	3151-12	Jet Engine Technician
3151-12	3151-13	Pneudraulic Systems Technician (Aircraft)
3151-13	3151-14	Powerplant Technician (Aircraft)
3151-14	3151-15	Rocket Engine Component Technician
3151-15	2173-03	Aircraft Examiner Grade A29
3151-16	2174-02	Assistant Air Traffic Control Officer Grade A29
3151-17	New	Job Preparator, Technical (Aircraft)
3151-18	New	Dock Planning Supervisor, Aircraft
3151-19	New	Dock Planner, Aircraft
3151-20	New	Workshop Planner, Aircraft
3151-21	New	Material Controller, Aircraft
3152		**SHIP/MARINE TECHNICIANS**
3152-01	3152-01	Marine Assistant Grade A19
3152-02	3152-02	Berthing Master
3152-03	3152-03	Yacht Skipper
3152-04	3152-04	Cargo Ships Traffic Supervisor
3152-05	3152-05	Engine Marin Technician
3152-06	3152-06	Ship Technician
3152-07	New	Marine Supervisor
3152-08	2172-02	Assistant Marine Officer Grade A29

MASCO 2020	MASCO 2013	JOB TITLE
3153		**TRAIN/ LOCOMOTIVE TECHNICIANS**
3153-01	3153-01	Train Technician
3153-02	3153-02	Railway Supervisor
3153-03	3153-03	Locomotive Supervisor
3153-04	3153-04	Light Rail Transit Supervisor
3153-05	3153-05	Railway Inspector
3153-06	New	Track Network Technician
3153-07	New	Signalling and Communication Technician
3153-08	New	Rail Rolling Stocks Technician
3154		**MOTOR VEHICLES TECHNICIANS**
3154-01	3154-01	Vehicle Technician
3154-02	3154-02	Motor Vehicle Engine And Fuel Systems Technician
3154-03	3154-03	Motor Vehicle Mechatronics Technician
3154-04	3154-04	Automotive Brakes Systems Technician
3154-05	3154-05	Vehicles Body Frame Technician
3154-06	3154-01	Motor Vehicle Technician
3154-07	New	Green Technology Vehicle Assistant Designer
3154-08	New	Crane Technician
3159		**TRANSPORT TECHNICIANS NOT ELSEWHERE CLASSIFIED**
3159-01	3159-01	Road Transport Supervisor
3159-02	3129-05	Logistics Supervisor
3159-03	New	Transport Supervisor, Halal Logistics Operation
3159-04	New	Green Technology Infrastructure Assistant Facilitator
3161		**NUCLEAR RESEARCH AND DEVELOPMENT ASSOCIATE PROFESSIONALS**
3161-01	3161-01	Nuclear Technician
3211		**MEDICAL IMAGING AND THERAPEUTIC EQUIPMENT TECHNICIANS**
3211-01	3211-01	Radiographer Grade U29
3211-02	3211-02	Radiographer
3211-03	3211-03	Radiology Technician
3211-04	3211-04	Diagnostic Medical Radiographer
3211-05	3211-05	Mammographer
3211-06	3211-06	Medical Radiation Therapist
3211-07	3211-07	Nuclear Medicine Technologist
3212		**MEDICAL AND PATHOLOGY LABORATORY TECHNICIANS**
3212-01	3212-02	Anatomy Technician
3212-02	3212-03	Blood-Bank Technician
3212-03	3212-04	Biophysics Technician
3212-04	3212-05	Ecology Technician
3212-05	3212-06	Genetics Technician
3212-06	3212-07	Haematology Technician
3212-07	3212-08	Histology Technician
3212-08	3212-09	Cytology Technician
3212-09	3212-10	Physiology Technician
3212-10	3212-11	Pathology Technician
3212-11	3212-12	Medical Science Technician
3212-12	3212-13	Parasitological Assistant
3212-13	3212-14	Medical Laboratory Technician
3212-14	3212-15	Surgical Technician
3212-15	2269-04	Medical Laboratory Technician Grade U29
3212-16	New	Medical Laboratory Technologist
3213		**PHARMACEUTICAL TECHNICIANS AND ASSISTANTS**
3213-01	3213-01	Pharmaceutical Assistant
3213-02	3213-02	Pharmaceutical Laboratory Assistant

MASCO 2020	MASCO 2013	JOB TITLE
3213-03	3213-03	Pharmaceutical Technician
3213-04	3213-04	Pharmacy Aide
3213-05	2262-02	Assistant Pharmacy Officer Grade U29
3213-06	2262-08	Pharmacy Assistant
3214		**MEDICAL AND DENTAL PROSTHETIC TECHNICIANS**
3214-01	3214-01	Dental technician
3214-02	3214-02	Denturist
3214-03	3214-03	Orthotic Technician
3214-04	3214-04	Orthotist
3214-05	2261-21	Dental Technologist Grade U29
3215		**ORTHOTIC AND PROSTHETIC TECHNICIANS**
3215-01	3215-01	Orthopaedic Technician
3215-02	3215-02	Prosthetic Technician
3215-03	3212-01	Medical Technician Grade U19
3221		**NURSING ASSOCIATE PROFESSIONALS (EXCEPT DENTAL)**
3221-01	3221-01	Nurse Grade U29
3221-02	3221-02	Assistant Nurse
3221-03	3221-03	Enrolled Nurse
3221-04	3221-04	Practical Nurse
3222		**MIDWIFERY ASSOCIATE PROFESSIONALS**
3222-01	3222-02	Midwife
3222-02	3222-03	Midwifery Assistant
3231		**TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS**
3231-01	3231-01	Traditional Malay Medicine Practitioner
3231-02	3231-02	Traditional Chinese Medicine Practitioner
3231-03	3231-03	Traditional Indian Medicine Practitioner
3231-04	3231-04	Traditional Chinese Medicine Dispenser
3231-05	3231-05	Healer
3231-06	3231-06	Cupping therapist
3231-07	3231-07	Bonesetter
3231-08	3231-08	Herbalist
3231-09	New	Reflexologist
3231-10	New	Technician, acupuncture
3231-11	New	Technician, ayurvedic
3241		**VETERINARY TECHNICIANS AND ASSISTANTS**
3241-01	3241-01	Veterinary Assistant Grade G19
3241-02	3241-02	Veterinary Technician
3241-03	3241-03	Veterinary Biotech Research Technician
3241-04	3241-04	Veterinary Vaccinator
3241-05	3241-05	Veterinary Assistant
3241-06	3241-06	Veterinary Artificial Insemination Assistant
3241-07	New	Veterinary Artificial Inseminator
3241-08	3241-08	Veterinary Biotech Production Technician
3241-09	3241-09	Veterinary Nurse
3241-10	2251-02	Assistant Veterinary Officer Grade G29
3251		**DENTAL ASSISTANTS AND THERAPISTS**
3251-01	3251-02	Dental Surgery Assistant Grade U19
3251-02	3251-03	Public Health Dental Nurse
3251-03	3251-04	Dental Nurse
3251-04	3251-05	Dental School Nurse
3251-05	New	Dental Assistant
3251-06	New	Dental Hygienist

MASCO 2020	MASCO 2013	JOB TITLE
3251-07	New	Dental Therapist Grade U29
3252		**MEDICAL RECORDS AND HEALTH INFORMATION TECHNICIANS**
3252-01	3252-01	Medical Record Technician
3252-02	3252-02	Clinical Coder
3252-03	3252-03	Disease Registry Technician
3252-04	3252-04	Medical Records Analyst
3252-05	3252-05	Health Information Clerk
3252-06	3252-06	Medical Records Clerk
3253		**COMMUNITY HEALTH WORKERS**
3253-01	3253-01	Community Health Aide
3253-02	3253-02	Community Health Promoter
3253-03	3253-03	Community Health Worker
3253-04	3253-04	Village Health Worker
3253-05	3222-01	Community Nurse Grade U19
3254		**DISPENSING OPTICIANS**
3254-01	3254-01	Optician, Contact-Lens Dispensing
3254-02	3254-02	Contact Lens Optician
3254-03	3254-03	Dispensing Optician
3255		**PHYSIOTHERAPY TECHNICIANS AND ASSISTANTS**
3255-01	3255-01	Physiotherapy Assistant
3255-02	3255-02	Electrotherapist
3255-03	3255-03	Acupressure Therapist
3255-04	3255-04	Hydrotherapist
3255-05	3255-05	Massage Therapist
3255-06	3255-06	Physiotherapy Technician
3255-07	3255-07	Physical Rehabilitation Technician
3255-08	3255-08	Shiatsu Therapist
3255-09	2264-03	Medical Therapist Grade U29
3255-10	New	Assistant Case Manager Grade 19
3256		**MEDICAL ASSISTANTS**
3256-01	3256-02	Medical Laboratory Assistant
3256-02	New	Hospital Assistant
3256-03	3256-04	Medical Assistant
3256-04	3256-05	Clinical Assistant
3256-05	3256-06	Radiographist Equipment
3256-06	3256-07	Radiographist Equipment, Medical, General
3256-07	3256-08	Medicalist X-Ray Equipment
3256-08	3256-09	Electrocardiographist Equipment
3256-09	3256-10	Electroencephalographist Equipment
3256-10	3256-11	Scanning Equipment
3256-11	3256-12	Sonographer
3256-12	3256-13	Ultrasonographer
3256-13	3256-14	Clinical Instructor
3256-14	3256-15	Ophthalmic Assistant
3256-15	2211-03	Assistant Medical Officer Grade U29
3257		**ENVIRONMENTAL AND OCCUPATIONAL HEALTH INSPECTORS AND ASSOCIATES**
3257-01	3257-01	Public Health Inspector
3257-02	3257-02	Public Health Safety Inspector
3257-03	3257-03	Public Health Unit Inspector
3257-04	3257-04	Public Health Restaurant Inspector
3257-05	3257-05	Occupational Safety and Health Inspector
3257-06	New	Occupational Environmental Hygiene Inspector
3257-07	3257-07	Occupational Safety Inspector

MASCO 2020	MASCO 2013	JOB TITLE
3257-08	3257-08	Occupational Health Inspector
3257-09	3257-09	Occupational Health Supervisor
3257-10	3257-10	Occupational Hygiene Inspector
3257-11	New	Occupational Hygiene Technician
3257-12	3257-12	Product Quality Inspector
3257-13	3257-13	Safety and Health Technician
3257-14	New	Safety and Health Pollution Inspector
3257-15	New	Safety and Health Consumer Protection Inspector
3257-16	3257-16	Safety And Health Inspector
3257-17	3257-17	Sanitary Inspector
3257-18	3257-18	Sanitary Standards Inspector
3257-19	3257-19	Vehicles Safety Inspector
3257-20	3257-20	Beauty Salon Inspector
3257-21	3257-21	Dangerous Goods Inspector
3257-22	New	Dangerous Waste Inspector
3257-23	3257-23	Environmental Safety and Health Technician
3257-24	3257-24	Environmental Health Inspector
3257-25	3257-25	Field Supervisor - Occupational Safety and Health
3257-26	3257-26	Flood Damage Inspector
3257-27	3257-27	Food Inspector
3257-28	3257-28	Hazardous Waste Inspector
3257-29	3257-29	Health Standards Inspector
3257-30	3257-30	Hotel and Restaurant Inspector
3257-31	3257-31	Industrial Hygiene Inspector
3257-32	3257-32	Industrial Waste Control Inspector
3257-33	3257-33	Nursing Homes Inspector
3257-34	3257-34	Sewage Disposal Inspector
3257-35	3257-35	Water Inspector
3257-36	3257-36	Mine Safety Inspector
3257-37	3257-37	Mine Examiner
3257-38	3257-38	Pollution Control Inspector
3257-39	3257-39	Radiation Monitor
3257-40	3257-40	Restaurant Inspector
3257-41	3257-41	Rodent Control Inspector
3257-42	3257-42	Safety and Sanitary Inspector
3257-43	3257-43	Waste Water Treatment Plant Inspector
3257-44	New	Food Sanitation and Safety Inspector
3257-45	3257-45	Health Inspector
3257-46	New	Safety and Environmental Coordinators
3257-47	2113-03	Assistant Food Technology Officer Grade C29
3257-48	New	Assistant Environmental Health Officer Grade U29
3257-49	2133-25	Assistant Environmental Control Officer Grade C29
3258		**AMBULANCE ASSISTANTS**
3258-01	3258-01	Ambulance Assistants
3258-02	3258-02	Ambulance Officer
3258-03	3258-03	Ambulance Paramedic
3258-04	3258-04	Emergency Medical Technician
3258-05	3258-05	Emergency Paramedic
3259		**HEALTH ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED**
3311		**SECURITIES AND FINANCE DEALERS AND BROKERS**
3311-01	3311-01	Securities Broker
3311-02	3311-02	Stock and Shares Broker
3311-03	3311-03	Foreign Exchange Broker
3311-04	3311-04	Stock Broker
3311-05	3311-05	Investment Broker
3311-06	3311-06	Foreign Exchange Dealer

MASCO 2020	MASCO 2013	JOB TITLE
3311-07	New	Forex Trades
3311-08	New	Fixed Income Trades
3311-09	New	Treasury Dealer
3311-10	New	Treasury Analyst
3312		**CREDIT AND LOANS OFFICERS**
3312-01	3312-01	Mortgage Officer
3312-02	3312-02	Loan Officer
3312-03	3312-03	Credit Control Executive
3312-04	3312-04	Credit Supervisor
3312-05	3312-05	Claims Executive
3312-06	3312-06	General Ledger Officer
3312-07	3312-07	Costing Executive
3312-08	New	Credit Analyst
3312-09	New	Credit Officer
3312-10	New	Credit Risk Officer
3313		**ACCOUNTING AND AUDITING ASSOCIATE PROFESSIONALS**
3313-01	3313-05	Book-Keeper
3313-02	3313-06	Account Supervisor
3313-03	3313-07	Financial Supervisor
3313-04	2411-03	Assistant Accountant Grade W29
3313-05	2411-32	Assistant Auditor Grade W29
3313-06	2411-04	Assistant Executive Officer (Accounting) Grade 31
3313-07	2411-06	Assistant Executive Officer (Accounting) Grade 6
3313-08	2411-08	Assistant Executive Officer (Accounting) Grade L8
3313-09	2411-28	Assistant Account Executive Officer
3313-10	2411-29	Assistant Account Officer
3313-11	2411-33	Assistant Executive Officer (Auditing) Grade 31
3313-12	2411-34	Assistant Executive Officer (Auditing) Grade 6
3313-13	2411-38	Audit Assistant Executive Officer
3313-14	2411-41	Assistant Executive Officer (Auditing) Grade L8
3313-15	2412-04	Assistant Executive Officer (Finance) Grade L8
3313-16	New	Internal Audit Assistant
3313-17	New	Accounting Technician
3313-18	New	Energy Audit Technician
3313-19	New	Account Work Officer Grade 19
3314		**STATISTICAL, MATHEMATICAL AND ACTUARIAL ASSOCIATE PROFESSIONALS**
3314-01	2121-03	Assistant Statistics Officer Grade E29
3315		**VALUERS AND LOSS ASSESSORS**
3315-01	3315-02	Appraiser
3315-02	3315-03	Valuer
3315-03	3315-04	Revenue Assessor
3315-04	3315-05	Claims Inspector
3315-05	3315-06	Claims Assessor
3315-06	3315-07	Insurance Adjuster
3315-07	3315-08	Insurance Assessor
3315-08	3315-09	Real Estate Appraiser
3315-09	2421-02	Assistant Valuation Officer Grade W29
3321		**INSURANCE REPRESENTATIVES**
3321-01	3321-01	Insurance Agent
3321-02	3321-02	Insurance Broker
3321-03	3321-03	Insurance Underwriter
3321-04	3321-04	Insurance Consultant
3321-05	3321-05	Insurance Representative
3321-06	New	Claim Underwriters

MASCO 2020	MASCO 2013	JOB TITLE
3321-07	New	Non-motor Underwriter
3321-08	New	General Insurance Underwriter
3321-09	New	Claims Officer
3322		**COMMERCIAL SALES REPRESENTATIVES**
3322-01	3322-01	Salesperson, Commercial
3322-02	3322-02	After Sales Service Adviser
3322-03	3322-03	Canvasser
3322-04	3322-04	Sales Representative
3322-05	3322-05	Salesperson, Travel
3322-06	3322-06	Salesperson, Technical
3322-07	3322-07	Engineering Sales Agent
3322-08	3322-08	Technical Sales Agent
3322-09	3322-10	Representatives, Technical Sales Commersial
3322-10	3322-11	Salesperson, Business Services Advertising
3322-11	3322-20	Pre-Sales Support
3322-12	3322-22	Salesperson, Car
3322-13	3322-23	Salesperson, Motor Vehicle
3322-14	3322-24	Salesperson, Motorcycle
3322-15	New	Sales Representatives Grade P4
3322-16	New	Assistant Marketing Officer
3322-17	New	Salesperson, Manufacturing
3322-18	New	Salesperson, shop
3322-19	New	Salesperson, Retail Establishment
3322-20	New	Salesperson, Wholesale Establishment
3322-21	New	Representative, manufacturing
3322-22	New	Consultant, sales: manufacturing
3323		**BUYERS**
3323-01	3323-01	Planning and Distribution Executive
3323-02	3323-02	Purchasing Executive
3323-03	3323-03	Buyer
3323-04	3323-04	Buyer, Production Purchasing
3323-05	3323-05	Procurement Agent
3323-06	3323-06	Procurement Executive
3323-07	3323-07	Purchasing Agent
3323-08	3323-08	Procurement Officer
3323-09	3323-09	Supply Officer
3323-10	3323-10	Purchasing Merchandiser
3323-11	New	Purchasing Executive, Halal Food Manufacturing
3323-12	New	Purchasing Executive, Halal Meat Processing
3323-13	New	Purchasing Team Leader
3323-14	New	Buying Agent
3324		**TRADE BROKERS**
3324-01	3324-01	Commodities Broker
3324-02	3324-02	Shipping Broker
3324-03	3324-03	Trade Broker
3331		**CLEARING AND FORWARDING AGENTS**
3331-01	3331-01	Clearing Agent
3331-02	3331-02	Forwarding Agent
3331-03	3331-03	Shipping Agent
3331-04	New	Clearing and Forwarding Agent
3332		**CONFERENCE AND EVENT AGENTS**
3332-01	3332-01	Exhibition and Convention Consultant
3332-02	3332-02	Exhibition and Convention Organizer
3332-03	3332-03	Travel Agent

MASCO 2020	MASCO 2013	JOB TITLE
3332-04	3332-04	Travel Organizer
3332-05	3332-05	Conference and Event Organizer
3332-06	3332-06	Wedding Planner
3332-07	3332-07	Conference Planner
3333		**EMPLOYMENT AGENTS AND CONTRACTORS**
3333-01	3333-01	Employment Agent
3333-02	3333-02	Job Placement Officer
3333-03	3333-03	Labour Contractor
3334		**REAL ESTATE AND PROPERTY AGENTS**
3334-01	3334-01	Real Estate Agent
3334-02	3334-02	Property Agent
3334-03	3334-03	Property Realtor
3334-04	3334-04	Property Negotiator
3334-05	3334-05	Estate Agent
3334-06	3334-06	Real Estate Salesperson
3339		**BUSINESS SERVICES AGENTS NOT ELSEWHERE CLASSIFIED**
3339-01	3339-01	Auctioneer
3339-02	3339-02	Literary Agent
3339-03	3339-03	Musical Performance Agent
3339-04	3339-04	Sports Agent
3339-05	3339-05	Theatrical Agent
3339-06	3339-06	Sports Promoter
3341		**ADMINISTRATIVE ASSOCIATE PROFESSIONALS**
3341-01	3341-01	Sergeant-at-Arms Grade N29
3341-02	3341-02	Data Entry Supervisor
3341-03	3341-03	Hospital Admitting Clerks Supervisor
3341-04	3341-04	Filling Clerks Supervisor
3341-05	3341-05	Administrative Supervisor
3341-06	3341-06	Clerical Supervisor
3341-07	3341-07	Medical Records Unit Supervisor
3341-08	3341-08	Personnel Clerks Supervisor
3341-09	3341-09	Human Resource Supervisor
3341-10	3341-10	Management Trainee
3341-11	3341-11	Factory Administrator
3341-12	2821-02	Assistant Economic Affairs Officer Grade E29
3341-13	2432-02	Assistant Information Officer Grade S29
3341-14	2919-18	Language Planner Assistant Grade S29
3341-15	2425-05	Assistant Administrative Officer Grade N29
3341-16	2832-04	Assistant Publication Officer Grade N29
3341-17	1411-05	Assistant Hostel Manager Grade 29
3341-18	2425-10	Assistant Executive Officer (Administration) Grade L8
3341-19	2425-20	Assistant Executive Administration Officer
3341-20	2425-04	Assistant Executive Officer (Administration) Grade 31
3341-21	2821-04	Assistant Executive Officer (Economic) Grade 6
3341-22	New	Internship Corporate Affairs
3341-23	New	Assistant Divisional Officer Certification
3341-24	New	Production Trainee
3341-25	New	Executive Officer Grade 19
3342		**LEGAL SECRETARIES**
3342-01	3342-02	Legal Secretary
3343		**ADMINISTRATIVE AND EXECUTIVE SECRETARIES**
3343-01	3343-01	Assistant Executive Officer (Secretarial) Grade 31
3343-02	3343-02	Assistant Executive Officer (Secretarial) Grade 6

MASCO 2020	MASCO 2013	JOB TITLE
3343-03	3343-03	Assistant Executive Officer (Secretarial) Grade L8
3343-04	3343-04	Personal Assistant
3343-05	3343-05	Executive Assistant
3343-06	3343-06	Executive Secretary, Government Administration
3343-07	3343-07	Company Secretary (public sector)
3343-08	3343-08	Verbatim Reporter
3343-09	3343-09	Office Chief Secretary
3343-10	3343-10	Executive Secretary
3343-11	3343-11	Executive Secretary, Committee
3343-12	3343-12	Executive Secretary, Non-Government Administration
3343-13	3343-13	Executive Secretary, Administration
3343-14	3343-14	Company Secretary
3343-15	3343-15	Consular Officials
3343-16	3343-16	Assistant Secretarial Executive Officer
3343-17	3343-17	Administrative Secretary
3343-18	3343-18	Correspondence Assistant
3344		**MEDICAL SECRETARIES**
3344-01	3344-01	Medical Secretary
3344-02	3344-02	Medical Administrative Assistant
3344-03	3344-03	Hospital Ward Secretary
3344-04	3344-04	Patient Care Secretary
3344-05	3344-05	Medical Stenographer
3344-06	3344-06	Medical Insurance Assistant
3344-07	3344-07	Medical Billing Secretary
3344-08	3344-08	Pathology Secretary
3344-09	New	Medical Transcriptionist
3411		**LEGAL AND RELATED ASSOCIATE PROFESSIONALS**
3411-01	3411-03	Baillif
3411-02	3411-06	Legal Assistant
3411-03	3411-07	Conveyancing Clerk
3411-04	3411-08	Paralegal
3411-05	3411-09	Law Clerk
3411-06	3411-10	Clerk, Judge
3411-07	3411-11	Clerk, Court
3411-08	3411-12	Litigation Clerk
3411-09	3411-13	Assistant, Barrister
3411-10	3411-14	Assistant, Solicitor
3411-11	2611-10	Assistant Legal Officer Grade L29
3411-12	2611-12	Assistant Executive Officer (Legal) Grade 31
3411-13	2611-14	Assistant Executive Officer (Legal) Grade 6
3411-14	2611-16	Assistant Executive Officer (Legal) Grade L8
3411-15	2611-30	Assistant, Legal
3411-16	New	Assistant Executive Officer, Legal
3411-17	2611-11	Assistant Syariah Officer Grade LS20
3511		**INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION TECHNICIANS**
3511-01	3511-01	Computer Technician Grade FT19
3511-02	3511-02	Administrative Assistant (Operator Computer) Grade 21
3511-03	3511-03	Administrative Assistant (Computer Technician) Grade 21
3511-04	3511-04	Executive Assistant (Information Technology) Grade 3
3511-05	3511-05	Computer Technician
3511-06	3511-06	Computer Peripheral Equipment Technician
3511-07	3511-07	Computer Peripheral Equipment Console Technician
3511-08	3511-08	Computer Peripheral Equipment High-Speed Printer Technician
3511-09	3511-09	Electronic Data Processing Technician
3511-10	3511-10	Computer Engineering Assistant
3511-11	3511-11	Assistant Supervisor, Electronic Data Processing (EDP)

MASCO 2020	MASCO 2013	JOB TITLE
3511-12	3511-12	Electronic Data Processing Supervisor
3511-13	3511-13	Semi-Conductor Technician
3511-14	3511-14	Information Systems Technician
3511-15	3511-15	Information Technology Assistant
3511-16	3511-16	Computer Console Operator
3511-17	3511-17	Systems Operator
3511-18	3511-18	Computer Operator
3511-19	3511-19	High-Speed Computer Printer Operator
3511-20	3511-20	Computer Peripheral Equipment Operator
3511-21	3511-21	Hardware Technician
3511-22	New	Administrative Assistant, Computer Technician
3511-23	New	Engineering Assistant, Telecommunications
3511-24	New	Supervisor, Management Information Systems
3511-25	New	Assistant Information Technology Officer Grade FA29
3511-26	2522-04	Assistant Executive Officer (Information Technology) Grade 31
3511-27	2522-06	Assistant Executive Officer (Information Technology) Grade 6
3511-28	2522-08	Assistant Executive Officer (Information Technology) Grade L8
3511-29	2522-24	Assistant Information Technology Officer
3511-30	New	Assistant Computer System Executive
3511-31	New	Service Technician (Multi-function Printer)
3511-32	2511-13	Assistant Computer Systems Analyst
3511-33	3512-13	Computer Systems Analysis Assistant
3511-34	New	Computer Programmer Grade 19
3511-35	New	PLC Assistant Engineer (Programmable Logic Controller)
3512		**INFORMATION AND COMMUNICATIONS TECHNOLOGY USER SUPPORT TECHNICIANS**
3512-01	3512-01	Computer Help Desk Technician
3512-02	3512-02	Personal Computer Support Technician
3512-03	3512-03	Information Technology Technician
3512-04	3512-04	Computer Help Desk Operator
3512-05	3512-05	Communication and Computer Engineering Assistant
3512-06	3512-06	Computer Assistant
3512-07	3512-07	Communications Assistant (ICT)
3512-08	3512-08	Database Assistant
3512-09	3512-09	Computer Programming Assistant
3512-10	3512-10	Computer User Services Assistant
3512-11	3512-11	Customer Help Desk Officer
3512-12	3512-12	Call Centre Trainer
3512-13	New	Data Centre Supervisor
3512-14	New	Data Centre Assistant
3512-15	New	Technical Support Technician
3512-16	4419-03	Wireless Operator Grade N19
3513		**COMPUTER NETWORK AND SYSTEMS TECHNICIANS**
3513-01	3513-01	Computer Network Technician
3513-02	3513-02	Network Support Technician
3513-03	New	Network Security Technician (ICT)
3513-04	New	System Security & Application ICT Technician
3513-05	New	Assistant Network Engineer
3514		**WEB TECHNICIANS**
3514-01	3514-01	Website Technician
3514-02	3514-02	Web Technician
3514-03	New	Multimedia Animation
3521		**BROADCASTING AND AUDIO-VISUAL TECHNICIANS**
3521-01	New	Audio-Visual Technician Grade N19
3521-02	3521-02	Cinematographer
3521-03	3521-03	Audio-Visual Operator

MASCO 2020	MASCO 2013	JOB TITLE
3521-04	3521-04	Production Assistant (Media)
3521-05	3521-05	Motion Picture Assistant
3521-06	3521-06	Sound-Effects Technician
3521-07	3521-07	Dubbing Mixer
3521-08	3521-08	Sound Mixer
3521-09	3521-09	Sound Editor
3521-10	3521-10	Cinema Projectionist
3521-11	3521-11	Ships Radio Officer
3521-12	3521-12	Broadcast Technician
3521-13	3521-13	Audio and Video Equipment Technician
3521-14	3521-14	Broadcasting Equipment Technician
3521-15	3521-15	Radio and Television Broadcasting Equipment Technician
3521-16	3521-16	Land-Base Radio Equipment Technician
3521-17	3521-17	Flight Radio Equipment Technician
3521-18	3521-18	Telecommunications Equipment Technician
3521-19	3521-19	Radio and Television Transmitting Equipment Technician
3521-20	3521-20	Broadcasting Equipment Operator
3521-21	3521-21	Cameraman/woman (Motion Picture)
3521-22	3521-22	Cameraman/Woman (Video)
3521-23	New	Videographer
3521-24	New	Assistant Telecommunications Engineer
3522		**TELECOMMUNICATIONS ENGINEERING TECHNICIANS**
3522-01	3522-01	Aerospace Engineering Technician (Telecommunications)
3522-02	3522-02	Engineering Technician (Telecomunications)
3522-03	3522-03	Communications Technician
3522-04	3522-04	Telecommunications Technician
3611		**SOCIAL WORK ASSOCIATE PROFESSIONALS**
3611-01	3611-03	Social Worker
3611-02	3611-04	Social Worker, Group Work
3611-03	3611-05	Welfare Officer, Industry
3611-04	3611-06	Welfare Officer, Probation
3611-05	3611-07	Parole Officer, Associate Professional
3611-06	3611-08	Probation Officer, Associate Professional
3611-07	3611-09	Officer, Family Planning
3611-08	3611-10	Social Welfare Worker
3611-09	3611-11	Social Welfare Worker, Case Work
3611-10	3611-12	Social Worker, Child Welfare
3611-11	3611-13	Social Worker, Delinquency
3611-12	3611-14	Social Worker, Community
3611-13	3611-15	Social Worker, Medical
3611-14	3611-16	Social Worker, Psychiatric
3611-15	3611-17	Welfare Organizer
3611-16	3611-18	Assistant Counselor
3611-17	3611-19	Community Development Worker
3611-18	3611-20	Community Service Worker
3611-19	3611-21	Disability Services Officer
3611-20	3611-22	Family Service Worker
3611-21	3611-23	Life Skills Instructor
3611-22	3611-24	Mental Health Worker
3611-23	3611-25	Welfare Support Worker
3611-24	3611-26	Women's Shelter Supervisor
3611-25	3611-27	Youth Worker
3611-26	2822-02	Assistant Social Research Officer Grade N29
3611-27	2825-02	Assistant Community Development Officer Grade S29
3611-28	2824-03	Assistant Psychological Officer Grade S29
3611-29	2919-14	Assistant Anti-Drug Officer Grade S29
3611-30	2824-04	Assistant Executive Officer (Psychology) Grade 31

MASCO 2020	MASCO 2013	JOB TITLE
3612		**RELIGIOUS ASSOCIATE PROFESSIONALS**
3612-01	3612-02	Monk
3612-02	3612-03	Nun
3612-03	3612-04	Preacher
3612-04	3612-05	Bilal
3612-05	3612-06	Faith Healer
3612-06	2826-02	Assistant Islamic Affairs Officer Grade S29
3612-07	New	Mutawif/Mutawifah
3621		**ATHLETES AND SPORTS PLAYERS**
3621-01	3621-01	Sportsperson
3621-02	3621-02	Athlete
3621-03	3621-03	Boxer
3621-04	3621-04	Footballer
3621-05	3621-05	Hockey player
3621-06	3621-06	Tennis player
3621-07	3621-07	Wrestler
3621-08	3621-08	Chess player
3621-09	3621-09	Golfer
3621-10	3621-10	Jockey
3621-11	3621-11	Race driver
3621-12	New	E-Games Player
3622		**SPORTS COACHES, INSTRUCTORS AND OFFICIALS**
3622-01	3622-02	Assistant Youth and Sport Officer Grade S29
3622-02	3622-06	Sports Officials
3622-03	3622-07	Referee
3622-04	3622-08	Sports Coach
3622-05	3622-09	Aerobics Coach
3622-06	3622-10	Judo Coach
3622-07	3622-11	Karate Coach
3622-08	3622-12	Silat Coach
3622-09	3622-13	Taekwando Coach
3622-10	3622-14	Tennis Coach
3622-11	3622-15	Tai Chi Coach
3622-12	3622-16	Yoga Coach
3622-13	3622-17	Swimming Coach
3622-14	3622-18	Instructor and Other Sports Officials Coach (Indoor)
3622-15	3622-19	Instructor and Other Sports Officials Coach (Outdoor)
3622-16	3622-20	Sports Instructor
3622-17	3622-21	Group Exercise Instructor & Coordinator
3622-18	3622-22	Linesman
3622-19	3622-23	Swimming Instructor
3622-20	New	Coach, General
3622-21	New	Instructor, General
3622-22	2399-04	Assistant Kesatria Officer Grade S29
3623		**FITNESS AND RECREATION INSTRUCTORS AND PROGRAM LEADERS**
3623-01	3623-01	Physical Fitness Instructor
3623-02	3623-02	Billiard Instructor
3623-03	3623-03	Chess Instructor
3623-04	3623-04	Sailing Instructor
3623-05	3623-05	Horse Riding Instructor
3623-06	3623-06	Outdoor Adventure Guides
3623-07	3623-07	Clubhouse Supervisor
3623-08	3623-08	Personal Trainer
3623-09	3623-09	Aerobics Instructor
3623-10	3623-10	Dive Instructor
3623-11	3623-11	Fitness Instructor

MASCO 2020	MASCO 2013	JOB TITLE
3623-12	New	Divemaster
3631		**PHOTOGRAPHERS**
3631-01	3631-02	Administrative Assistant (Photographer) Grade 21
3631-02	3631-03	Photographer
3631-03	3631-04	Commercial Illustration Photographer
3631-04	3631-05	News Photographer
3631-05	3631-06	Press Photographer
3631-06	3631-07	Photo-Journalist
3631-07	3631-08	Aerial Photographer
3631-08	3631-09	Microphotographer
3631-09	3631-10	Microphotography Photographer
3631-10	3631-11	Medical Photographer
3631-11	3631-12	Scientific Photographer
3631-12	3631-13	Commercial Photographer
3631-13	3631-14	Industrial Photographer
3631-14	3631-15	Potrait Photographer
3631-15	New	Photographer Grade B19
3631-16	New	Photographer Grade B29
3631-17	New	Photographer Grade B21
3631-18	New	Photographer Grade B25
3631-19	New	Photographer Grade B31
3631-20	New	Photographer Grade B37
3631-21	New	Photographer Grade B39
3632		**INTERIOR DESIGNERS AND DECORATORS**
3632-01	3632-01	Designer Grade B19
3632-02	3632-02	Interior Designer
3632-03	3632-03	Furniture Designer
3632-04	3632-04	Poster Designer
3632-05	3632-05	Artist Desktop Publishing
3632-06	3632-06	Book Illustrator
3632-07	3632-07	Advertising Illustrator
3632-08	3632-08	Artist Display
3632-09	3632-09	Display Decorator
3632-10	3632-10	Visual Merchandiser
3632-11	3632-11	Armorial Designer
3632-12	3632-12	Display Designer
3632-13	3632-13	Windows Display Designer
3632-14	3632-14	Scenery Designer
3632-15	3632-15	Exhibition Designer
3632-16	3632-16	Interior Decorator
3632-17	3632-17	Metalwork Ornamental Designer
3632-18	3632-18	Motion Picture Set Decorator
3632-19	3632-19	Theatrical Set Designer
3632-20	3632-20	Flower Decorator
3632-21	3632-21	Carve Technician
3632-22	3632-22	Set Designer
3632-23	3632-23	Window Dresser
3632-24	New	Designer Grade B21
3632-25	New	Designer Grade B25
3632-26	New	Designer Grade B29
3632-27	New	Designer Grade B31
3632-28	New	Designer Grade B37
3632-29	New	Fit Out Executive
3633		**GALLERY, MUSEUM AND LIBRARY ASSOCIATE PROFESSIONALS**
3633-01	3633-01	Archives Assistant Grade S19
3633-02	3633-02	Conservation Assistant Grade S19

MASCO 2020	MASCO 2013	JOB TITLE
3633-03	3633-03	Museum Assistant Grade S19
3633-04	3633-05	Gallery Technician
3633-05	3633-06	Library Technician
3633-06	3633-07	Museum Technician
3633-07	2811-03	Assistant Archives Officer Grade S29
3633-08	2811-04	Assistant Curator Grade S29
3633-09	New	Assistant Librarian Grade S29
3633-10	2812-06	Assistant Executive Officer (Library) Grade 6
3633-11	2812-07	Assistant Library Executive
3633-12	New	Assistant Executive Officer, Library
3633-13	2812-04	Assistant Executive Officer (Library) Grade 31
3634		**ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS**
3634-01	3634-01	Musician Grade B19
3634-02	3634-02	Artist Cultural Grade B19
3634-03	New	Musician Grade B29
3634-04	2843-01	Artist, Cultural B29
3634-05	3639-03	Cultural Officer Grade B19
3634-06	New	Officer, Cultural Grade B29
3634-07	3639-02	Producer Grade B19
3634-08	3639-04	Special Effects Technician
3634-09	3639-05	Lighting Technician
3634-10	3639-06	Program Coordinator (Broadcasting)
3634-11	3639-07	Prompter
3634-12	3639-08	Property Master (Broadcasting)
3634-13	3639-09	Script-Girl/Boy
3634-14	3639-10	Stage Technician
3634-15	3639-11	Stunt Co-Ordinator
3634-16	3639-12	Stunt Artist
3634-17	3639-13	Theatre Technician
3634-18	New	Producer Grade B21
3634-19	New	Producer Grade B25
3634-20	New	Producer Grade B29
3634-21	New	Producer Grade B31
3634-22	New	Producer Grade B37
3634-23	New	Musician Grade B21
3634-24	New	Musician Grade B25
3634-25	New	Musician Grade B31
3634-26	New	Musician Grade B37
3634-27	New	Cultural Officer Grade B21
3634-28	New	Cultural Officer Grade B25
3634-29	New	Cultural Officer Grade B31
3634-30	New	Cultural Officer Grade B37
3634-31	New	Artist, Cultural B21
3634-32	New	Artist, Cultural B25
3634-33	New	Artist, Cultural B31
3634-34	New	Artist, Cultural B37
3634-35	New	Artist, Cultural B39
3634-36	New	Tukang Karut (Dikir Barat)
3639		**ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED**
3641		**CHEFS**
3641-01	3641-04	Sous Chef
3641-02	3641-05	Chef De Partie
3641-03	3641-06	Senior Chef
3641-04	3641-07	Chef
3641-05	3641-08	Barbeque Chef
3641-06	3641-09	Dim Sum Chef

MASCO 2020	MASCO 2013	JOB TITLE
3641-07	3641-10	Malay Cuisine Chef
3641-08	3641-11	Pastry Chef
3641-09	3641-12	Demi Chef
3641-10	3641-13	Kitchen Coordinator
3641-11	3641-15	Saucier
3641-12	New	Assistant Chef
3641-13	New	Assistant Chef, Dim Sum
3641-14	New	Executive Assistant, Chef
3641-15	3641-04	Executive Sous Chef
3641-16	New	Assistant Food Preparation Executive
3641-17	3641-01	Assistant Food Preparation Officer Grade C29
3711		**CUSTOMS AND BORDER INSPECTOR ASSOCIATE PROFESSIONALS**
3711-01	3711-01	Custom Inspector
3711-02	3711-02	Custom and Border Inspector
3711-03	3711-03	Border Inspector
3711-04	3711-04	Passport Checking Officer
3711-05	2911-03	Assistant Superintendent of Customs Grade WK29
3711-06	New	Assistant Immigration Superintendent Grade KP29
3712		**TAXATION AND EXCISE OFFICIALS ASSOCIATE PROFESSIONALS**
3712-01	2912-02	Assistant Executive Officer (Appraiser) Grade 31
3712-02	New	Assistant Executive Officer, Appraiser
3713		**GOVERNMENT SOCIAL BENEFITS OFFICIALS ASSOCIATE PROFESSIONALS**
3713-01	New	Social Security Claims Assistant Officer
3714		**GOVERNMENT LICENSING OFFICIALS ASSOCIATE PROFESSIONALS**
3714-01	3714-03	Licensing Inspector
3714-02	2914-02	Assistant Enforcement Officer Grade KP29
3714-03	2914-04	Assistant Executive Officer (Enforcement) Grade L8
3715		**POLICE OFFICER**
3715-01	3715-02	Police Inspector
3715-02	3715-03	Police Detective
3715-03	3715-04	Police Officer
3715-04	3715-05	Police Inquiry Agent
3715-05	3715-06	Police Patrol Officer
3715-06	3411-04	Private Detective
3715-07	3411-05	Private Investigator
3716		**CIVIL DEFENCE ASSOCIATE PROFESSIONALS**
3716-01	3716-03	Civil Service Inspector
3716-02	3716-04	Government Administration Inspector
3716-03	3716-05	RELA Officer
3716-04	3716-06	Territorial Army
3716-05	2916-02	Assistant Civil Defence Officer Grade KP29
3716-06	2919-11	Assistant Security Officer Grade KP29
3716-07	2919-16	Assistant Executive Officer (Safety) Grade 31
3719		**REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED**
3719-01	New	Maritime Enforcement Officers Other Ranks Grade T5
3719-02	3719-04	Price Inspector
3719-03	3719-05	Fire and Safety Inspector
3719-04	3719-06	Weight and Measures Inspector
3719-05	3719-07	Wage Inspector
3719-06	3719-08	Electoral Officer
3719-07	3719-09	Agricultural Inspector

MASCO 2020	MASCO 2013	JOB TITLE
3719-08	3719-10	Livestock Inspector
3719-09	3719-11	Forestry Inspector
3719-10	3719-12	Algojo
3719-11	2919-13	Assistant Fire Superintendent Grade KB29
3719-12	2919-12	Assistant Prison Superintendent Grade KA29
3719-13	2919-06	Assistant Officer, Investigation Grade P29
3719-14	New	Assistant Officer, Investigation Grade P31
3719-15	New	Assistant Officer, Investigation Grade P37
3719-16	2919-15	Assistant Industrial Relation Officer Grade S29
3719-17	2919-05	Assistant Registration Officer Grade KP29
4		CLERICAL SUPPORT WORKERS
4111		**GENERAL OFFICE CLERKS**
4111-01	4111-01	Administrative Assistant(Clerical/Operation) Grade N19
4111-02	4111-02	Land Administrative Assistant Grade NT17
4111-03	4111-03	Administrative Assistant (Designer) Grade 21
4111-04	4111-04	Administrative Assistant (Clerk) Grade 21
4111-05	4111-05	Administrative Assistant (Engineering) Grade 21
4111-06	4111-06	Executive Assistant (Administration and Support) Grade 3
4111-07	4111-07	Executive Assistant (Engineering) Grade 3
4111-08	4111-08	Executive Assistant (Clerical) Grade L11
4111-09	4111-09	General Office Clerk
4111-10	4111-10	Office Clerk
4111-11	4111-11	Administrative Clerk
4111-12	4111-12	Room Service Clerk
4111-13	4111-13	Confidential Clerk
4111-14	4111-14	Correspondence Clerk
4111-15	4111-15	Chief Clerk
4111-16	4111-16	Chief Office
4111-17	4111-18	Administrative Assistant
4111-18	4111-19	General Administrative Assistant
4111-19	New	Administrative assistant, designer
4111-20	New	Assistant, designer
4111-21	New	Administrative Clerk Grade K1
4111-22	New	Administrative Assistant, Halal Industry
4111-23	New	Assistant Office
4111-24	New	Daily part-time worker (Awam)
4111-25	4419-05	Executive Assistant (Economic) Grade 3
4111-26	4419-01	Economic Affairs Assistant Grade E19
4111-27	New	Clerk Officer Grade 14
4121		**SECRETARIES (GENERAL)**
4121-01	4121-01	Office Secretary Grade N29
4121-02	4121-02	Assistant Office Secretary Grade N19
4121-03	4121-04	Administrative Assistant (Secretarial) Grade 21
4121-04	4121-05	Executive Assistant (Secretarial) Grade 3
4121-05	4121-06	Secretarial Administrative Assistant
4121-06	4121-07	Administrative Assistant (Secretarial)
4121-07	4121-08	Secretary
4121-08	4121-11	Confidential Secretary
4121-09	4121-12	Stenography Secretary
4121-10	4121-15	Sales Secretary
4121-11	4121-16	School Secretary
4121-12	New	Office Assistant Secretary
4121-13	New	Secretary/Assistant Secretary Grade 19
4131		**TYPIST**
4131-01	4131-01	Typist

MASCO 2020	MASCO 2013	JOB TITLE
4131-02	4131-02	Stenographer
4131-03	4131-05	Audio Typist
4131-04	4131-09	General Assistant Typist
4132		**DATA ENTRY CLERKS**
4132-01	4132-02	Index Clerk
4132-02	4132-03	Records Clerk
4132-03	4132-05	Information Technology General Assistant (data-processing machine operator)
4132-04	4132-06	Computer Data Entry Clerk
4132-05	4132-08	Data Entry Operator
4132-06	4132-09	Payment Entry Clerk
4132-07	4132-10	Information Technology Clerk
4132-08	4132-11	Management Information Systems Clerk
4132-09	New	Data Entry Clerk
4211		**BANK TELLERS AND RELATED CLERKS**
4211-01	4211-01	Postal Clerk
4211-02	4211-02	Bank Teller
4211-03	4211-03	Cash Counter Clerk
4211-04	4211-04	Money Changer
4211-05	4211-06	Safe Deposit Clerk
4211-06	4211-07	Bank Clerk
4211-07	4211-08	Bank Assistant
4211-08	4211-09	Post office counter clerk
4212		**BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS**
4212-01	4212-01	Betting Counter Clerk
4212-02	4212-02	Bookmaker Clerk
4212-03	4212-03	Croupier
4212-04	4212-04	Casino Clerk
4213		**PAWNBROKERS AND MONEY-LENDERS**
4213-01	4213-01	Pawnbroker
4213-02	4213-02	Money-Lender
4214		**DEBT AND RENT COLLECTORS AND RELATED WORKERS**
4214-01	4214-01	Payment Collector
4214-02	4214-02	Bill Collector
4214-03	4214-03	Charity Collector
4214-04	4214-04	Debt Collector
4214-05	4214-05	Rent Collector
4214-06	4214-06	Rental Clerk
4214-07	4214-07	Heavy Vehicles Rental Clerk
4214-08	4214-08	Car Rental Clerk
4221		**TRAVEL CONSULTANTS AND CLERKS**
4221-01	4221-01	Travel Consultant
4221-02	4221-02	Travel Coordinator
4221-03	4221-03	Travel Agency Clerk
4221-04	4221-04	Booking Clerk
4221-05	4221-05	Travel Clerk
4221-06	4221-06	Travel Ticket Issuing Clerk
4221-07	4221-07	Travel Air Lines Clerk
4222		**CONTACT CENTRE INFORMATION CLERKS**
4222-01	4222-01	Information Assistant Grade S19
4222-02	4222-02	Appointments Clerk
4222-03	4222-03	Customer Service Supervisor
4222-04	4222-04	Call Centre Clerk

MASCO 2020	MASCO 2013	JOB TITLE
4222-05	4222-05	Customer Service Assistant
4222-06	4222-06	Call Centre Agent (Customer Service)
4222-07	4222-08	Customer Contact Centre Information Clerk
4223		**TELEPHONE OPERATORS**
4223-01	4223-01	Telecommunication Service Operator
4223-02	4223-02	Private Branch Exchange Telephone Operator
4223-03	4223-03	Telephone Exchange Telephone Operator
4223-04	4223-04	Telephonist
4223-05	4223-06	Telecommunication Service Supervisor
4223-06	New	General Assistant (Telephone Operator)
4223-07	4223-08	Answering service operator
4223-08	New	Telephone Operator
4224		**RECEPTIONISTS**
4224-01	4224-01	Receptionist
4224-02	4224-02	Medical Receptionist
4224-03	4224-03	Dental Receptionist
4224-04	4224-04	Telephone Receptionist
4224-05	4224-05	Front Office Receptionist
4224-06	4224-06	Front Office Assistant
4224-07	4224-07	Front Office Supervisor
4224-08	4224-08	Front Office Personnel
4224-09	4224-09	Guest Service Agent
4224-10	4224-10	Hotel Receptionist
4224-11	4224-11	Hotel Front Desk Clerk
4224-12	4224-12	Reservation Assistant
4224-13	4224-13	Reservation Supervisor
4224-14	4224-14	Concierge
4224-15	New	Chief, Concierge
4224-16	New	Front Office Assistant Supervisor
4224-17	New	Guest Service Assistant
4224-18	New	Reservation Agent
4225		**ENQUIRY CLERKS**
4225-01	4225-01	Administrative Assistant (Customer Services) Grade 21
4225-02	4225-02	Customer Service Officer Grade N19
4225-03	4225-03	Customer-Complaints Clerk
4225-04	4225-05	Inquiries Clerk
4225-05	4225-06	Information Clerk
4225-06	New	Customer Service Officer Grade 14
4226		**SURVEY AND MARKET RESEARCH INTERVIEWERS**
4226-01	4229-01	Market Research Interviewer
4226-02	4229-02	Survey Interviewer
4229		**CLIENT INFORMATION WORKERS NOT ELSEWHERE CLASSIFIED**
4229-01	4229-01	Hospital Admissions Clerk
4229-02	4229-02	Eligibility Interviewer
4229-03	4229-03	Eligibility Specialist
4311		**ACCOUNTING, AUDITING AND BOOKKEEPING CLERKS**
4311-01	4311-01	Administrative Assistant (Accounting) Grade 21
4311-02	4311-02	Executive Assistant (Accounting) Grade 3
4311-03	4311-03	Ledger Clerk
4311-04	4311-04	Book-keeping Machine Clerk
4311-05	4311-05	Book-keeping Clerk
4311-06	4311-06	Ledger Bookkeeper
4311-07	4311-07	Account Clerk

MASCO 2020	MASCO 2013	JOB TITLE
4311-08	4311-08	Accounting Payable Clerk
4311-09	4311-09	Accounting Receivable Clerk
4311-10	4311-10	Account and Promotion Clerk
4311-11	4311-11	Invoice Clerk
4311-12	4311-12	Auction Clerk
4311-13	4311-14	Administrative and Accounting Clerk
4311-14	4311-15	Audit Clerk
4311-15	4311-16	Credit Control Clerk
4311-16	4311-17	Credit Clerk
4311-17	4311-18	Credit Control Assistant
4311-18	4311-19	Billing Clerk
4311-19	4311-20	Property Clerk
4311-20	4311-21	Cost Clerk
4311-21	4311-23	Estimating Clerk
4311-22	4311-24	Cost Computing Clerk
4311-23	4311-25	Office Cash Clerk
4311-24	4311-26	Costing Assistant
4311-25	3313-01	Accounting Assistant Grade W19
4311-26	3313-02	AuditAssistant Grade W19
4311-27	3313-03	Administrative Assistant (Audit) Grade 21
4311-28	3313-04	Executive Assistant (Audit) Grade 3
4311-29	3313-08	Financial Assistant
4311-30	New	Accounts Assistant
4311-31	New	Administrative Assistant, Auditing
4311-32	New	Energy Audit Assistant Technician
4311-33	New	Account Keeper Grade 14
4312		**STATISTICAL, FINANCE AND INSURANCE CLERKS**
4312-01	4312-01	Administrative Assistant (Finance) Grade W19
4312-02	4312-02	Executive Assistant (Finance) Grade 3
4312-03	4312-03	Statistical Clerk
4312-04	4312-04	Social and Economic Data Enumerator
4312-05	4312-05	Field Enumerator
4312-06	4312-06	Opinion Polling Enumerator
4312-07	4312-07	Market Research Enumerator
4312-08	4312-08	Insurance Underwriting Clerk
4312-09	4312-09	Claim Clerk
4312-10	4312-10	Assistant Insurance Underwriting Supervisor
4312-11	4312-11	Insurance Adjustment Assistant
4312-12	4312-12	Insurance Underwriting Assistant
4312-13	4312-13	Insurance Policy Assistant
4312-14	4312-14	Insurance Claims Assistant
4312-15	4312-15	Finance Clerk
4312-16	4312-17	Actuarial Clerk
4312-17	4312-18	Brokerage Clerk
4312-18	4312-19	Insurance clerk
4312-19	4312-20	Tax Clerk
4312-20	4312-21	Investment Clerk
4312-21	4312-22	Adjustment Clerk
4312-22	4312-23	Stockbroker Clerk
4312-23	4312-24	Share and Stock Registration Clerk
4312-24	4312-25	Rating Clerk
4312-25	4312-26	Assistant Broker
4312-26	4312-27	Bond Clerk
4312-27	4312-28	Collateral Clerk
4312-28	4312-29	Mortgage Clerk
4312-29	New	Clerk, Clearing House, Banking
4312-30	New	Finance Clerk Grade K1
4312-31	3314-01	Statistical Assistant Grade E19

MASCO 2020	MASCO 2013	JOB TITLE
4312-32	3314-02	Mathematical Assistant
4312-33	3314-03	Actuarial Assistant
4313		**PAYROLL CLERKS**
4313-01	4313-01	Payroll Clerk
4313-02	4313-02	Wages Clerk
4313-03	4313-03	Paymaster
4313-04	4313-04	Payroll Processor
4321		**STOCK CLERKS**
4321-01	4321-01	Raw Material Clerk
4321-02	4321-02	Supply Clerk
4321-03	4321-03	Warehouse Clerk
4321-04	4321-04	Receiving Clerk
4321-05	4321-05	Delivery and Receiving Clerk
4321-06	4321-06	Store Clerk
4321-07	4321-07	Raw Material Store Clerk
4321-08	4321-08	Stock Worker
4321-09	4321-09	Warehouse Assistant
4321-10	4321-10	Store Receiving Assistant
4321-11	4321-11	Store Assistant
4321-12	4321-12	Store Controller
4321-13	4321-13	Storekeeper
4321-14	4321-14	Material Storekeeper
4321-15	4321-15	Finished Goods Storekeeper
4321-16	4321-16	Store Coordinator
4321-17	4321-17	Stock Control Clerk
4321-18	4321-18	Food and Beverage Control Clerk
4321-19	4321-19	Stock Clerk
4321-20	4321-20	Plantation Stock Clerk
4321-21	4321-21	Stock Record Clerk
4321-22	4321-22	Weighing Clerk
4321-23	4321-23	Weighbridge-Security Controller
4321-24	4321-25	Shipping Clerk
4321-25	4321-26	Tally Clerk
4321-26	4321-27	Linen Supply Hotel and Lodging Clerk
4321-27	4321-28	Kitchen Hotel Clerk
4321-28	4321-29	Inventory Clerk
4321-29	4321-30	Inventory Purchasing Clerk
4321-30	4321-31	Freight Clerk
4321-31	4321-33	Freight Routing Clerk
4321-32	4321-34	Freight Despatching Clerk
4321-33	4321-35	Freight Receiving Clerk
4321-34	4321-36	Freight Traffic Clerk
4321-35	4321-37	Cargo Clerk
4321-36	4321-38	Import-Export Clerk
4321-37	4321-39	Grading Clerk
4321-38	4321-40	Storeroom Clerk
4321-39	New	Store Maintenance Grade K1
4321-40	New	Mover Grade K1
4321-41	New	Purchasing Clerk, Halal Meat Processing
4321-42	New	Assistant Storekeeper
4322		**PRODUCTION CLERKS**
4322-01	4322-01	Clerk, Production
4322-02	4322-02	Clerk, Production Control
4322-03	4322-03	Clerk, Operation
4322-04	4322-04	Clerk, Plantation
4322-05	4322-05	Clerk, Engineering

MASCO 2020	MASCO 2013	JOB TITLE
4322-06	4322-06	Clerk, Quality and Ecology
4322-07	4322-07	Clerk, Mill Office
4322-08	4322-08	Clerk, Logging
4322-09	4322-09	Clerk, Purchasing Material
4322-10	4322-10	Clerk, Packing
4322-11	4322-11	Clerk, Procurement
4322-12	4322-12	Clerk, Order Management
4322-13	4322-13	Clerk, Production Administrative
4322-14	4322-14	Clerk, Maintenance
4322-15	4322-15	Clerk, Motor Maintenance
4322-16	4322-16	Clerk, Food and Beverage Research
4322-17	4322-17	Clerk, Planning Material
4322-18	4322-18	Clerk, Order Material
4322-19	New	Production Site Coordinator
4322-20	4322-20	Clerk, Tooling
4322-21	4322-21	Clerk, Service
4322-22	4322-22	Clerk, Site
4322-23	4322-23	Clerk, Power Plant
4322-24	4322-24	Clerk, Planning Production
4322-25	4322-25	Clerk, Technician
4322-26	4322-26	Clerk, Facilities Maintenance
4322-27	4322-27	Clerk, Technical
4322-28	4322-28	Clerk, Quality Assurance
4322-29	4322-29	Clerk, Quality Control
4322-30	4322-30	Schedule Clerk (Materials)
4322-31	New	Quality Assurance Assistant Grade K1
4323		**TRANSPORT CLERKS**
4323-01	4323-01	Logistic Clerk
4323-02	4323-02	Transport Clerk
4323-03	4323-03	Claim Clerk, Transportation
4323-04	4323-04	Control Clerk, Train
4323-05	4323-05	Control Clerk, Railway Service
4323-06	4323-06	Dispatch Clerk, Train
4323-07	4323-07	Dispatch Clerk, Railway
4323-08	4323-08	Yardmaster Railway
4323-09	4323-09	Inspector, Road Transport Services
4323-10	4323-10	Inspector, Bus Services
4323-11	4323-11	Control Clerk, Road Transport Services
4323-12	4323-12	Dispatch Clerk, Bus
4323-13	4323-13	Dispatch Clerk, Road Transport
4323-14	4323-14	Dispatch Clerk, Truck
4323-15	4323-15	Air Transport Operations Clerk
4323-16	4323-16	Clerk, Flight Operation
4323-17	4323-17	Dispatch Clerk, Air Transport
4323-18	4323-18	Clerk, Traffic
4323-19	4323-19	Control Clerk, Air Transport Service
4323-20	4323-20	Dispatch Clerk, Aircraft
4323-21	4323-21	Wharfinger
4323-22	4323-22	Clerk, Shipping and Purchasing
4323-23	4323-23	Officer, Ferry
4323-24	4323-24	Float Master
4323-25	4323-25	Control Clerk, Sea Transport Services
4323-26	4323-26	Dispatch Clerk, Boat
4323-27	4323-27	Dispatch Clerk, Gas Pipeline
4323-28	4323-28	Dispatch Clerk, Oil Pipeline
4323-29	4323-29	Coordinator, Shipping
4323-30	4323-30	Dispatch Clerk, (Transport Service)
4323-31	New	Clerical Inspector, Railway Transport Service

MASCO 2020	MASCO 2013	JOB TITLE
4323-32	New	Transport Clerk, Train Goods
4323-33	New	Claim Officer, Train
4323-34	New	Clerical Controller, Train Services
4411		**LIBRARY CLERKS**
4411-01	4411-01	Administrative Assistant (Library) Grade 21
4411-02	4411-02	Executive Assistant (Library) Grade 3
4411-03	4411-03	Library Clerk
4411-04	4411-04	Library File compiler
4411-05	4411-05	Library Administrative Assistant
4411-06	New	Librarian Assistant Grade S19
4411-07	3633-08	Library Assistant
4412		**MAIL CARRIERS AND SORTING CLERKS**
4412-01	4412-01	Postman/Woman
4412-02	4412-02	Clerk, Mail Dispatch
4412-03	4412-03	Assistant, Mail Dispatch
4412-04	4412-04	Process Dispatch
4412-05	4412-05	Summon Dispatch
4412-06	4412-06	Clerk, Mail Sorting
4412-07	4412-07	Clerical Controller, Mail Depot
4412-08	4412-08	Clerical Controller, Mail
4412-09	4412-09	Clerical Controller, Postal Service
4412-10	4412-10	Clerk, Mail
4412-11	4412-11	Clerk, Address List
4412-12	4412-12	Clerk, Mailling List
4413		**CODING, PROOF-READING AND RELATED CLERKS**
4413-01	4413-01	Proof-Reader Clerk
4413-02	4413-02	Coding Clerk, Data-Processing
4413-03	4413-04	Publication Clerk
4413-04	4413-05	Coding Clerk
4413-05	3639-01	Publication Assistant Grade N19
4414		**SCRIBES AND RELATED WORKERS**
4414-01	4414-01	Petition Writer
4414-02	4414-02	Public Writer
4414-03	4414-03	Scribes
4415		**FILING AND COPYING CLERKS**
4415-01	4415-01	Clerk, Filing
4415-02	4415-02	Clerk, Compilation Directory
4415-03	4415-04	Clerk, Photocopying
4415-04	4415-05	Clerk, Document Copying
4415-05	4415-06	Clerk Control Document
4415-06	4415-07	Controller, Document
4415-07	4415-08	Coordinator, Document
4415-08	4415-09	Clerk, Document
4415-09	New	Document Assistant, Halal Food Manufacturing
4415-10	New	Document Clerk, Halal Logistics Operation
4416		**PERSONNEL CLERKS**
4416-01	New	Clerk, Employment
4416-02	4416-02	Clerk, General Affairs
4416-03	4416-03	Clerk, Personnel
4416-04	4416-05	Clerk, Human Resource
4416-05	4416-06	Personnel Assistant
4416-06	4416-07	Clerk, Addressing Machine
4416-07	4416-08	Clerk, Registry

MASCO 2020	MASCO 2013	JOB TITLE
4416-08	4416-09	Clerk, Classification
4416-09	4416-10	Clerk, Probate
4416-10	4416-11	Human Resource Assistant
4419		**CLERICAL SUPPORT WORKERS NOT ELSEWHERE CLASSIFIED**
4419-01	4419-16	Assistant Wardrobe
4419-02	New	Safety clerk
4419-03	3411-01	Administrative Assistant (Legal) Grade L19
4419-04	3342-01	Syariah Assistant Grade LS19
4419-05	9621-02	Sergeant-at-arms, Grade N11
4419-06	New	Assistant Operation Grade N11
4419-07	3612-01	Islamic Affairs Assistant Grade S19
4419-08	3719-01	Industrial Relation Assistant Grade S19
4419-09	3315-01	Valuation Assistant Grade W19
4419-10	3611-01	Community Development Assistant Grade S19
4419-11	3611-02	Social Research Assistant Grade N19
4419-12	3411-02	Anti-Drug Assistant Grade S19
4419-13	3622-04	Kesatria Assistant Grade S19
4419-14	3622-05	Youth and Sport Assistant Grade S19
4419-15	3712-01	Administrative Assistant (Appraiser) Grade 21
4419-16	3712-02	Tax Estimater Assistant
4419-17	3712-03	Excise Assistant
4419-18	3712-04	Tax Assistant
4419-19	3712-05	Taxation Inspector's Assistant
4419-20	New	Operation Assistant Grade 9
5	5	SERVICES AND SALES WORKERS
5111		**TRAVEL ATTENDANTS AND TRAVEL STEWARDS**
5111-01	5111-01	Ship's Cabin Attendant
5111-02	5111-02	Steward/Stewardess, Coordinator
5111-03	5111-03	Steward/Stewardess, Supervisor
5111-04	5111-04	Steward/Stewardess, Floor
5111-05	5111-05	Flight Attendant
5111-06	5111-06	Steward/Stewardess
5111-07	5111-07	Airport Attendant
5111-08	5111-08	Cabin Crew
5111-09	5111-09	Flight Crew
5111-10	5111-10	Ship Steward/Stewardess
5111-11	New	Attendant, Coach
5111-12	New	Bus Crew Grade K3
5111-13	New	Hot Air Balloon Crew
5111-14	New	Job Preparator
5112		**TRANSPORT CONDUCTORS**
5112-01	5112-01	Bus Conductor
5112-02	5112-02	Ticket Inspector
5112-03	5112-03	Ferry/ Boat Conductor
5112-04	5112-04	Train Conductor
5112-05	5112-06	Cable Car Conductor
5112-06	5112-07	Passenger Guard, Train
5112-07	5112-08	Railway Guard
5112-08	5112-09	Tansport Conductor
5112-09	5112-10	Tram Conductor
5112-10	New	Station Master
5113		**TRAVEL GUIDES**
5113-01	5113-01	Tourist Guide
5113-02	5113-02	Travel Guide

MASCO 2020	MASCO 2013	JOB TITLE
5113-03	5113-03	Art Gallery Guide
5113-04	5113-04	Museum Guide
5113-05	5113-05	Factory Tour Guide
5113-06	5113-08	Tour Escort
5121		**COOKS**
5121-01	5121-04	Cook
5121-02	5121-05	Cook, Hotels and Catering Services
5121-03	5121-06	Cook, Private Service
5121-04	5121-07	Cook, Food Canning & Preserving
5121-05	5121-08	Helper, Barbeque
5121-06	5121-09	Commis
5121-07	5121-10	Assistant Cook
5121-08	New	Cook, Ship
5121-09	New	Cook Grade K1
5121-10	New	Culinary Assistant
5121-11	New	Food Preparation Assistant Grade N19
5121-12	5121-03	Chief Cook
5131		**WAITERS**
5131-01	5131-01	Waiter
5131-02	5131-02	Pramusaji
5131-03	5131-03	Waiter, Banquet
5131-04	5131-04	Food and Beverage Supervisor
5131-05	5131-05	Outlet Supervisor
5131-06	5131-06	Restaurant Supervisor
5131-07	5131-07	Food and Beverage Worker, Banquet
5131-08	5131-08	Food and Beverage Worker, Room Service
5131-09	5131-09	Food and Beverage Worker
5131-10	5132-04	Barista
5131-11	New	Pramusaji Grade K3
5132		**BARTENDERS**
5132-01	5132-01	Bartender
5132-02	5132-02	Assistant Bartender
5132-03	5132-03	Food and Beverage Barmen
5141		**HAIRDRESSERS**
5141-01	5141-01	Coiffeur
5141-02	5141-02	Hairdresser
5141-03	5141-03	Barber
5141-04	5141-04	Hair Stylist
5141-05	5141-05	Hair Care Specialist
5142		**BEAUTICIANS AND RELATED WORKERS**
5142-01	5142-01	Beautician Grade B19
5142-02	5142-02	Beautician
5142-03	5142-03	Make-Up Artist
5142-04	5142-04	Manicurist
5142-05	5142-05	Pedicurist
5142-06	5142-06	Aesthetician
5142-07	5142-07	Spa Masseur
5142-08	5142-08	Beauty and Health Therapist
5142-09	5142-09	Spa Therapist
5142-10	5142-10	Slimming Consultant
5142-11	New	Beautician Grade B21
5142-12	New	Beautician Grade B25
5142-13	New	Beautician Grade B27

MASCO 2020	MASCO 2013	JOB TITLE
5151		**CLEANING AND HOUSEKEEPING SUPERVISORS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS**
5151-01	5151-01	Banquet Hotel and Lodging Supervisor
5151-02	5151-02	Floor Hotel and Lodging Supervisor
5151-03	5151-03	Housekeeping Supervisor
5151-04	5151-04	Laundry Supervisor
5151-05	5151-06	Housekeeper (Hotel)
5151-06	5151-07	Matron (Housekeeping)
5151-07	5151-08	Housekeeping Supervisor, Public Area
5151-08	5151-09	Housekeeping and Catering Services Supervisor
5151-09	5151-10	Floor Steward, Hotel and Lodging
5151-10	5151-11	Bell Captain, Hotel and Lodging
5151-11	5151-12	Room Steward
5151-12	New	Hotel Steward Leader
5151-13	New	Assistant Housekeeping Executive
5152		**DOMESTIC HOUSEKEEPERS**
5152-01	5152-01	Housekeeper, Private
5152-02	5152-02	Butler
5152-03	5152-04	House Steward, Private
5152-04	5152-06	Housekeeping Worker, Private
5152-05	New	Assistant Linen
5152-06	New	Housekeeper
5152-07	New	Worker, Housekeeping
5152-08	New	Housekeeper (Private Service)
5152-09	New	Housekeeping Worker, Room
5152-10	New	House Steward
5153		**BUILDING CARETAKERS**
5153-01	5153-01	Hostel Supervisor Grade N19
5153-02	5153-02	Building Caretaker
5153-03	5153-03	Warden, Hostel
5153-04	5153-04	Warden, Dormitory
5153-05	5153-05	Warden, Camp
5153-06	5153-06	Sexton
5153-07	5153-07	Siak / Nuja
5153-08	5153-08	Floor Captain
5153-09	5153-09	Janitor
5153-10	5153-10	Camp Supervisor
5153-11	New	Assistant Administrative, Hostel
5161		**ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS**
5161-01	5161-01	Astrologer
5161-02	5161-02	Palmist
5161-03	5161-03	Fortune-Teller
5161-04	5161-04	Numerologist
5162		**COMPANIONS AND VALETS**
5162-01	5162-01	Lady-in-Waiting
5162-02	5162-02	Companion
5162-03	5162-03	Companion, Social
5162-04	5162-04	Valet
5163		**UNDERTAKERS AND EMBALMERS**
5163-01	5163-01	Attendant, Mortuary
5163-02	5163-02	Undertaker
5163-03	5163-03	Embalmer
5163-04	5163-04	Moirologist
5163-05	5163-05	Attendant, Crematorium

MASCO 2020	MASCO 2013	JOB TITLE
5163-06	5163-06	Grave Digger
5164		**PET GROOMERS AND ANIMAL CARE WORKERS**
5164-01	5164-02	Animal Caretaker
5164-02	5164-03	Keeper In Zoo, Bird and Aquatic Parks
5164-03	5164-04	Zookeeper
5164-04	New	Veterinary Worker
5165		**DRIVING INSTRUCTORS**
5165-01	5165-01	Driving Instructor
5169		**PERSONAL SERVICES WORKERS NOT ELSEWHERE CLASSIFIED**
5169-01	5169-02	Club Host
5169-02	5169-04	Guest Relations Officer
5169-03	New	Event Crew
5211		**STALL AND MARKET SALESPERSONS**
5211-01	5211-01	Street Stall Salesperson
5211-02	5211-02	Market Salesperson
5211-03	5211-03	Kiosk Salesperson
5211-04	5211-04	Counter Sales Promoter
5211-05	5211-05	Florist
5211-06	5211-06	Butcher
5211-07	5211-07	Fishmonger
5211-08	5211-08	Wholesale and Retail Salesperson
5211-09	5211-09	Market/Stall Vendor
5211-10	5211-10	Market/Stall holder
5211-11	5211-11	Salesperson, Marketing
5211-12	New	Stall Salesperson
5211-13	New	Salesperson (Stall/Promoter) Grade K2
5212		**STREET FOOD SALESPERSONS**
5212-01	5212-01	Hawker (Food)
5212-02	5212-02	Street Food Vendor
5221		**SHOPKEEPERS**
5221-01	5221-01	Shopkeeper
5221-02	5221-02	Grocer
5221-03	New	Newsagent
5222		**SHOP SUPERVISORS**
5222-01	5222-01	Shop Supervisor
5222-02	5222-02	Sales Supervisor
5222-03	5222-03	Supermarket Supervisor
5222-04	5222-04	Checkout Supervisor
5222-05	New	Supervisor (Stall/Kiosk) Grade K1
5223		**SHOP SALES ASSISTANTS**
5223-01	5223-01	Sales Assistant
5223-02	5223-02	Shop Assistant
5223-03	4419-06	Clerk, Sales
5223-04	4419-07	Clerk, Marketing
5223-05	4419-08	Clerk, Sales and Marketing
5223-06	4419-09	Clerk, Local Sales
5223-07	4419-10	Clerk, Sales Counter
5223-08	4419-11	Clerk, Sales Admin
5223-09	4419-13	Clerk, Telesales
5223-10	4419-14	Clerk, Sales Order
5223-11	4419-15	Coordinator, Sales

MASCO 2020	MASCO 2013	JOB TITLE
5223-12	4419-18	Clerk, Advertising
5223-13	New	E-Commerce Sales Clerk
5231		**CASHIERS AND TICKET CLERKS**
5231-01	5231-01	Cashier
5231-02	5231-03	Assistant Cashier
5231-03	5231-04	Cashier, Parking
5231-04	5231-06	Cashier, Store
5231-05	5231-07	Cashier, Petrol Pump Station
5231-06	5231-08	Cashier, Theatre
5231-07	5231-09	Cashier, Cafeteria
5231-08	5231-10	Cashier, Food and Beverage
5231-09	5231-11	Cashier, Restaurant
5231-10	5231-12	Cashier, Booking-Office
5231-11	5231-13	Cashier, Race Track
5231-12	5231-14	Clerk, Ticket Issuing (Except Travel)
5231-13	5231-15	Cashier, Check-Out
5231-14	5231-16	Cashier, Cash Desk
5231-15	5231-18	Cashier, Currency Exchange
5231-16	5231-19	Clerk, Toll Collection
5231-17	5231-20	Toll Teller
5231-18	5231-21	Cashier, Theme Park
5231-19	New	Cashier Grade K2
5241		**FASHION AND OTHER MODELS**
5241-01	5241-01	Fashion Model
5241-02	5241-02	Advertising Model
5241-03	5241-03	Artist Model
5242		**SALES DEMONSTRATORS**
5242-01	5242-01	Demonstrator
5242-02	5242-02	Sales Promoter
5242-03	5242-03	Sales Merchandiser
5243		**DOOR-TO-DOOR SALESPERSONS**
5243-01	5243-01	Direct Selling Salesperson
5243-02	5243-02	Door to Door Salesperson
5244		**CONTACT CENTRE SALESPERSONS**
5244-01	5244-01	Customer Contact Centre Salesperson
5244-02	5244-02	Contact Centre Personnel
5244-03	5244-03	Outbound Contact Centre Consultant
5244-04	5244-05	Telesales Executive
5244-05	5244-07	Telemarketer
5244-06	5244-08	Call centre salesperson
5244-07	5244-09	Internet Salesperson
5245		**SERVICE STATION AND PUMP ATTENDANTS**
5245-01	5245-01	Petrol Pump Attendant
5245-02	5245-02	Service Station Attendant
5246		**FOOD SERVICE COUNTER ATTENDANTS**
5246-01	5246-01	Food Counter Atendant
5246-02	5246-02	Cafeteria Counter Attendant
5249		**SALES WORKERS NOT ELSEWHERE CLASSIFIED**
5249-01	5249-01	Rental Salesperson

MASCO 2020	MASCO 2013	JOB TITLE
5311		**CHILD CARE WORKERS**
5311-01	5311-01	Child Care Worker
5311-02	5311-02	Baby Amah
5311-03	5311-03	Nanny
5311-04	5311-04	Baby-sitter
5312		**TEACHERS AIDES**
5312-01	New	Pupils Management Assistant Grade N19
5312-02	5312-02	Teacher's Aide
5312-03	5312-03	Pre-school Assistant
5312-04	5312-04	Kindergarten Assistant
5312-05	5312-05	Kindergarten Attendant
5312-06	5312-06	Kindergarten Worker
5312-07	4419-02	Assistant Training Officer Grade E19
5312-08	2381-01	Vocational Training Assistant DV19
5312-09	New	Teaching Assistant
5312-10	New	Vocational Training Assistant DV21
5321		**HEALTH CARE ASSISTANTS**
5321-01	5321-01	Health Medical Assistant Grade U11
5321-02	3256-01	Public Health Assistant Grade U19
5321-03	5321-03	Nursing Assistant
5321-04	5321-04	Nursing Medical Assistant
5321-05	5321-05	Nursing Home Assistant
5321-06	5321-06	Dental Aide
5321-07	5321-07	Hospital Aide
5321-08	5321-08	Birth Assistant (Clinic or Hospital)
5321-09	5321-09	Nursing Aide (Clinic Or Hospital)
5321-10	5321-10	Patient Care Assistant
5321-11	5321-11	Psychiatric Aide
5321-12	5329-01	First-Aide Attendant
5321-13	5329-02	Medical Imaging Assistant
5321-14	5329-03	Phlebotomist
5321-15	5329-04	Sterilization Aide
5322		**HOME-BASED PERSONAL CARE WORKERS**
5322-01	5322-01	Care Aide (Home)
5322-02	5322-02	Birth Assistant (Home)
5322-03	5322-03	Nursing Aide (Home)
5322-04	5322-04	Personal Care Provider
5322-05	New	Care Aide (Home) Grade K3
5322-06	New	Assistant, Day Care: Aged
5322-07	New	Companion, aged care
5322-08	New	Helper, Aged Care
5322-09	New	Helper, Caring for Aged (home)
5322-10	New	Worker, Home Care
5322-11	New	Assistant, Day Care: Disabled
5322-12	New	Helper, Caring for Infirm (home)
5329		**PERSONAL CARE WORKERS IN HEALTH SERVICES CENTRE NOT ELSEWHERE CLASSIFIED**
5411		**FIRE-FIGHTERS**
5411-01	5411-01	Fire Officer Grade KB19
5411-02	5411-02	Firefighter
5411-03	5411-03	Fire Watch Officer
5411-04	5411-04	Forest Fire Fighter
5411-05	New	Fireman (Fire Brigade)
5411-06	New	Fire Brigade Officer

MASCO 2020	MASCO 2013	JOB TITLE
5412		**LOW RANK POLICE OFFICERS**
5412-01	5412-01	Low-Ranking Police Officer and Auxiliary Constable, Grade YT1
5412-02	5412-02	Low-Ranking Police Officer and Aboriginal Constable, Grade YP1
5412-03	5412-03	Police Volunteer
5412-04	5412-04	Police Patrol
5412-05	New	Sub Inspector
5412-06	New	Sergeant Major, Police
5412-07	New	Sergeant, Police
5412-08	New	Corporal, Police
5412-09	New	Police Lans Corporal
5412-10	New	Auxiliary Police
5412-11	3715-01	Low-ranking Officer and Constable Grade YA1
5413		**PRISON GUARDS**
5413-01	5413-01	Prison Officer Grade KA19
5414		**SECURITY GUARDS**
5414-01	5414-01	Security Assistant Grade KP19
5414-02	5414-02	Security Grade KP11
5414-03	5414-03	Administrative Assistant (Security) Grade 21
5414-04	5414-04	General Worker (Security Control) Grade 1
5414-05	5414-05	General Worker (Security) Grade 1
5414-06	5414-06	Guard, Gambling Activities
5414-07	5414-07	Bodyguard
5414-08	5414-08	Guard, Industrial Warehouse Department
5414-09	5414-09	Guard, Security Private
5414-10	5414-10	Guard
5414-11	5414-11	Security Guard
5414-12	5414-12	Office Guard
5414-13	5414-14	Safety Supervisor
5414-14	5414-15	Security Supervisor
5414-15	5414-16	Museum guard
5414-16	5414-17	Security patrolman
5414-17	5414-18	Doorkeeper
5414-18	New	Chief, Security Guard
5414-19	New	Volunteer Team Malaysia (RELA)
5414-20	New	Watchman Grade K3
5414-21	5414-13	Watchman
5414-22	New	Navigational Watch Support Operation
5415		**IMMIGRATION/CUSTOM OFFICERS AND ASSISTANT**
5415-01	5415-01	Immigration Officer Grade KP19
5415-02	5415-02	Assistant Superintendent of Custom Grade WK19
5419		**PROTECTIVE SERVICES WORKERS NOT ELSEWHERE CLASSIFIED**
5419-01	5419-02	Maritime Enforcement Officers of Other Ranks Grade T1
5419-02	5419-03	Game Warden
5419-03	5419-04	Park Warden, Animal Recreation
5419-04	5419-05	Wild Life Warden
5419-05	5419-06	Industrial Investigator
5419-06	5419-07	Recreation Supervisor
5419-07	5419-08	Swimming Pool Attendant
5419-08	5419-09	Lifeguard
5419-09	5419-10	Rescue Diver
5419-10	5419-11	Coastguard
5419-11	5419-12	Traffic warden
5419-12	5419-13	Highway Patrol
5419-13	5419-14	Traffic Controller
5419-14	5419-15	Animal Control Officer

MASCO 2020	MASCO 2013	JOB TITLE
5419-15	5419-16	Beach Patrolman/woman
5419-16	5419-17	Crossing Guard
5419-17	New	Store Detective
5419-18	New	Assistant, Investigation KR17
5419-19	New	Rehabilition Workers N1
5419-20	3716-01	Civil Defence Assistant Grade KP19
5419-21	4132-01	Fingerprint Examiner Grade N19
5419-22	3713-01	Social Benefits Assistant
5419-23	3714-01	Enforcement Assistant Grade KP19
5419-24	3714-02	Executive Assistant Grade L11
5419-25	3714-04	Licensing Assistant
5419-26	3714-05	Passport Issuing Assistant
5419-27	3714-06	Building Permit Assistant (Licensing)
5419-28	3714-07	Business Permit Assistant (Licensing)
5419-29	3719-02	Registration Assistant Grade KP19
5419-30	3142-02	Wildlife Assistant Grade G11
6		**SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS**
6111		**FIELD CROP GROWERS**
6111-01	6111-01	Grower, Field Crop
6111-02	6111-02	Grower, Rubber
6111-03	6111-03	Grower, Coconut
6111-04	6111-04	Grower, Oil Palm
6111-05	New	Grower, Papaya
6111-06	New	Grower, Banana
6111-07	6111-07	Grower, Abaca
6111-08	6111-08	Grower, Dragon Fruit
6111-09	6111-09	Grower, Pineapple
6111-10	6111-10	Grower, Intercrop Tree
6111-11	6111-11	Grower, Rice
6111-12	6111-12	Conductor, Field and Factory Rubber Plantation
6111-13	6111-13	Conductor, Field and Factory Oil Palm Plantation
6111-14	6111-14	Inspector Quality, Plantation
6111-15	6111-15	Mandore, Plantation
6111-16	6111-16	Checker, Plantation
6111-17	6111-17	Grader, Oil Palm
6111-18	6111-18	Supervisor, Plantation
6111-19	6111-19	Skilled Farm Worker (field crops)
6111-20	6111-20	Grower, Tobacco
6111-21	New	Field Farmer
6111-22	New	Estate Supervisor
6111-23	New	Grower, Fruits
6111-24	New	Grower, Kenaf
6111-25	New	Grower, Durian
6111-26	New	Grower, Rambutan
6111-27	New	Grower, Fibre crops
6111-28	New	Grower, Nipa Palm
6111-29	New	Grower, Areca
6111-30	New	Farmer, Cereal
6111-31	New	Farmer, Cotton
6111-32	New	Grower, Tropical Fruits
6111-33	New	Grower, Sago (herbs)
6111-34	New	Grower, Kayu Gaharu
6111-35	New	Grower, Spices
6111-36	New	Grower, Strawberry
6112		**SHRUB CROP GROWERS**
6112-01	6112-01	Grower, Shrub Trees

MASCO 2020	MASCO 2013	JOB TITLE
6112-02	6112-02	Grower, Coco
6112-03	6112-03	Grower, Tea
6112-04	New	Grower, Pomegranate
6112-05	6112-05	Grower, Coffee
6112-06	6112-06	Grower, Grape
6112-07	6112-07	Grower, Cluster Fruit
6112-08	New	Grower, Corn
6112-09	New	Grower, Watermelon
6112-10	New	Grower, Sugarcane
6112-11	New	Grower, Mango
6112-12	New	Grower, Star Fruit
6112-13	New	Grower, Citrus fruit
6112-14	New	Grower, Guava
6112-15	New	Grower, Berries
6112-16	New	Grower, Groundnut
6112-17	New	Grower, Roselle
6112-18	New	Grower, Aromatic
6113		**GARDENERS, HORTICULTURAL AND NURSERY GROWERS**
6113-01	6113-01	Gardener
6113-02	6113-02	Flower Grower
6113-03	6113-03	Horticulture Grower
6113-04	6113-04	Hydroponics Grower
6113-05	6113-05	Mushroom Cultivator
6113-06	6113-06	Bonsai Grower
6113-07	6113-07	Landscape Gardener
6113-08	New	Nursery Worker
6113-09	New	Ornametal Plant Grower
6114		**MIXED CROP GROWERS**
6114-01	6114-01	Mixed Crop Grower
6114-02	6114-02	Mixed Crop Farmer
6114-03	6114-03	Skilled Farm Worker (mixed crops)
6115		**VEGETABLE GROWERS**
6115-01	6115-01	Vegetable Grower
6115-02	6115-02	Lentil Grower
6115-03	6115-04	Chili Farmer
6115-04	New	Cabbage Grower
6115-05	New	Asparagus Grower
6115-06	New	Spinach Grower
6115-07	New	Salad Grower
6115-08	New	Cucumber Grower
6115-09	New	Tomato Grower
6115-10	New	Farmer, Potato
6121		**LIVESTOCK AND DAIRY PRODUCERS**
6121-01	6121-01	Breeder, Livestock
6121-02	6121-02	Breeder, Dairy
6121-03	6121-03	Skilled Farm Worker, Mixed Animal Husbandry
6121-04	6121-04	Producer, Dairy
6121-05	6121-05	Farmer, Livestock
6121-06	6121-08	Shepherd
6121-07	6121-09	Producer, Livestock
6121-08	6121-11	Milker
6121-09	6121-06	Farmer
6121-10	New	Farmer, Cattle
6121-11	New	Farmer, Buffaloes

MASCO 2020	MASCO 2013	JOB TITLE
6121-12	New	Farmer, Goat
6121-13	New	Farmer, Horse
6121-14	New	Farmer, Camel
6121-15	6121-07	Farmer, Pig
6121-16	New	Breeder, Horse
6121-17	New	Breeder, Cat
6121-18	New	Breeder, Cattle
6121-19	New	Breeder, Dog
6121-20	New	Breeder, Reindeer
6121-21	New	Farmer, Dairy
6122		**POULTRY PRODUCERS**
6122-01	6122-01	Farmer, Goose
6122-02	6122-02	Farmer, Chicken
6122-03	6122-03	Farmer, Bird
6122-04	6122-04	Farmer, Duck
6122-05	6122-05	Breeder, Poultry
6122-06	6122-06	Farmer, Poultry
6122-07	6122-07	Farmer, Ostrich
6122-08	6129-05	Breeder, Game Bird
6122-09	6129-01	Inseminator, Poultry
6122-10	New	Farmer, Egg Production
6122-11	New	Farmer, Turkey
6122-12	New	Hatcher-breeder, poultry
6122-13	New	Operator, Incubator (farm)
6122-14	New	Sexer, Poultry
6123		**APIARISTS AND SERICULTURIST**
6123-01	6123-01	Apiarist
6123-02	New	Farmer, Honey Bees
6123-03	6123-07	Beekeeper
6123-04	6123-10	Farmer, Kelulut
6123-05	New	Worker, beekeeping: skilled
6123-06	6123-05	Farmer, silkworm raising
6123-07	6123-02	Sericulturist
6123-08	New	Worker, sericultural: skilled
6129		**ANIMAL PRODUCERS AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED**
6129-01	6129-02	Vaccinator
6129-02	6129-03	Worker, Incubator
6129-03	6129-06	Farmer, Snake
6129-04	6129-07	Farmer, Crocodile
6129-05	6123-03	Farmer, Leech
6129-06	6123-04	Farmer, Worm
6129-07	New	Breeder, Reptile
6129-08	New	Breeder, Sea snail
6131		**MIXED CROP AND ANIMAL PRODUCERS**
6131-01	6131-01	Mixed Product Farmer (Crops and Husbandry)
6131-02	6131-02	Farmer (Mixed Farming)
6131-03	6131-03	Skilled Farm Worker (Mixed Farming)
6211		**SKILLED FORESTRY AND RELATED WORKERS**
6211-01	6211-01	Forest Guard Grade G19
6211-02	6211-03	Logger
6211-03	6211-04	Forestry Tree Feller
6211-04	6211-05	Chaser
6211-05	6211-06	High Climber, Logging
6211-06	6211-07	Logger, Underwater

MASCO 2020	MASCO 2013	JOB TITLE
6211-07	6211-08	Marker, Log
6211-08	6211-09	Log Feller
6211-09	6211-10	Grader, Log
6211-10	6211-11	Scaler, Log
6211-11	6211-12	Signalman, Log
6211-12	6211-13	Operator, Yarder
6211-13	6211-14	Operator, Log-Grapple
6211-14	6211-15	Skilled Worker, Forestry
6211-15	6211-16	Maker, Log-Raft
6211-16	6211-17	Checker, Log
6211-17	6211-18	Forester
6211-18	6211-19	Chokerman, Logging
6211-19	6211-20	Peeler, Log
6211-20	6211-21	Supervisor, Log
6211-21	6211-22	Charcoal Burner
6211-22	3143-01	Forest Ranger Grade G19
6211-23	New	Ranger, Forest
6221		**FISHERY AND AQUACULTURE PRODUCERS**
6221-01	New	Farmer, Fishery Livestock
6221-02	6221-02	Farmer, Fishery
6221-03	6221-03	Pearl Culturist
6221-04	6221-04	Skilled Fish Farm Worker
6221-05	6221-05	Algae Cultivator
6221-06	6221-06	Skilled Seafood Farm Worker
6221-07	6221-07	Farmer, Ornamental Fish
6221-08	6221-08	Farmer, Shellfish
6221-09	6221-09	Farmer, Gamat
6221-10	6221-10	Farmer, Turtle
6221-11	6221-11	Producer, Marine Product
6221-12	6221-12	Farmer, Aquaculture
6221-13	6221-13	Seafood Farmer
6221-14	6221-14	Oyster Farmer
6221-15	6221-15	Pearl Cultivator
6221-16	6221-16	Producer, Crackers
6221-17	6221-17	Producer, Otak-Otak
6221-18	6221-18	Producer, Fishball
6221-19	New	Hatcher, Fish
6221-20	New	Fish Cultivator
6221-21	New	Producer, Salted Fish
6222		**SKILLED INLAND AND COASTAL WATERS FISHERY WORKERS**
6222-01	6222-01	Fishery Worker, Kellong
6222-02	6222-02	Fishery Worker, Inland Waters
6222-03	6222-03	Fishery Worker, Coastal
6222-04	6222-04	Diver, Pearl
6222-05	6222-05	Diver, Oyster
6222-06	6222-06	Crewman
6222-07	6222-07	Anchorman
6222-08	6222-08	Commercial Fisherman
6222-09	6222-09	Fishery Worker
6222-10	6222-10	Fisherman (Coastal Waters)
6222-11	6222-11	Fisherman (Inland Waters)
6223		**SKILLED DEEP-SEA FISHERYWORKERS**
6223-01	6223-01	Fishery Worker, Deep-Sea
6223-02	6223-02	Fisherman (Deep Sea)
6223-03	6223-03	Trawler Skipper
6223-04	New	Captain, Fishing: Deep-Sea

MASCO 2020	MASCO 2013	JOB TITLE
6224		**HUNTERS AND TRAPPERS**
6224-01	6224-01	Hunter
6224-02	6224-02	Trapper
6311		**SUBSISTENCE CROP FARMERS**
6311-01	6311-01	Subsitence Crop Grower
6321		**SUBSISTENCE LIVESTOCK FARMERS**
6321-01	6321-01	Subsistence Livestock Farmers
6331		**SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS**
6331-01	6331-01	Subsistence Mixed Crop and Livestock Farmers
6331-02	New	Farmer, Mixed:Subsistence
6331-03	New	Worker, Farm: Skilled (Subsistence Farming)
6341		**SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS**
6341-01	6341-01	Collector, Petai
6341-02	6341-02	Collector, Resin
6341-03	6341-03	Gatherer, Shellfish
6341-04	6341-04	Collector, Bird's Nest
6341-05	6341-05	Gatherer, Seaweed
6341-06	6341-06	Gatherer, Wild Fruits, Herbs & Vegetables
6341-07	6341-07	Fisherman, Subsistence
6341-08	6341-08	Collector, Subsistence
6341-09	6341-09	Collector, Ornamental Stone
6341-10	6341-10	Gatherer, Coconut Sap
6341-11	6341-11	Gatherer, Honey
6341-12	6341-07	Fisherman
6341-13	New	Collector, Hunter
6341-14	New	Trapper, Subsistence
6341-15	New	Diver, Subsistence
6341-16	New	Hunter, Subsistence
6341-17	New	Collector, Forestry Production
7	**7**	**CRAFT AND RELATED TRADES WORKERS**
7111		**HOUSE BUILDERS AND CONSTRUCTION WORKERS**
7111-01	7111-01	House Builder
7111-02	7119-01	Worker, Building Maintenance
7111-03	7119-04	Scaffolder
7111-04	7119-08	Building Frame Worker
7111-05	7119-09	Erector
7111-06	New	Barbender
7111-07	New	Construction Worker
7111-08	New	IBS Precast Concrete Installer (Industrialized Building System)
7111-09	New	IBS Lightweight Panel Installer (Industrialized Building System)
7112		**BRICKLAYERS AND RELATED WORKERS**
7112-01	7112-01	Bricklayers
7112-02	7112-02	Firebrick Layer
7112-03	7112-03	Paviour
7112-04	7112-04	Worker, Brickwork
7112-05	7112-05	Stonework Layout Man
7112-06	7112-06	Blocklayer
7112-07	7112-07	Refractory bricklayer
7112-08	7112-08	Chimney builder
7112-09	New	Bricklayers, Construction
7112-10	New	Stonemason, Construction

MASCO 2020	MASCO 2013	JOB TITLE
7113		**STONEMASONS, STONE CUTTERS, SPLITTERS AND CARVERS**
7113-01	7113-02	Splitter, Stone
7113-02	7113-03	Lathe Stone Worker
7113-03	7113-04	Cutter, Stone
7113-04	7113-05	Sawyer, Stone
7113-05	7113-06	Grader, Stone
7113-06	7113-07	Carver, Stone
7113-07	7113-08	Grinder, Stone
7113-08	7113-09	Carver-Setter, Monument
7113-09	7113-10	Polisher, Stone
7113-10	7113-11	Cutter, Granite
7113-11	7113-12	Dresser, Stone
7113-12	7113-13	Stonemason
7113-13	7113-14	Splitter, Sand
7113-14	7113-15	Finisher, Stone
7113-15	New	Setter-Operator, Lathe Stone
7113-16	New	Cutter and Finisher, Stone
7114		**CONCRETE PLACERS, CONCRETE FINISHERS AND RELATED WORKERS**
7114-01	7114-01	Reinforced Concrete Worker
7114-02	7114-02	Shutterer, Concrete Moulding
7114-03	7114-03	Shutterer, Concrete
7114-04	7114-04	Worker, Iron Reinforcing
7114-05	7114-05	Steel Bender
7114-06	7114-06	Finisher, Cement
7114-07	7114-07	Cementer
7114-08	7114-08	Cementer, Petroleum and Gas Wells
7114-09	7114-09	Steel Fixer
7115		**CARPENTERS AND JOINERS**
7115-01	7115-03	Carpenter
7115-02	7115-04	Carpenter, Construction
7115-03	7115-05	Joiner, Construction
7115-04	7115-06	Joiner, Ship
7115-05	7115-07	Boatbuilder, Wood
7115-06	7115-08	Shipwright, Wood
7115-07	7115-09	Carpenter, Ship
7115-08	7115-10	Joiner, Aircraft
7115-09	7115-11	Carpenter, Stage and Studio
7115-10	7115-12	Carpenter, Table
7115-11	7115-13	Wood engraver
7115-12	7115-14	Joiner
7115-13	7115-15	Framer, Wood
7115-14	New	Sawyer (wood)
7119		**BUILDING FRAME AND RELATED TRADES WORKERS NOT ELSEWHERE CLASSIFIED**
7119-01	7119-03	Drain Layer
7119-02	New	Demolition Worker
7119-03	7119-06	Erector, Billboard
7119-04	7119-07	Steeplejack
7121		**ROOFERS**
7121-01	7121-01	Roofer
7121-02	7121-02	Roofer, Thatch
7121-03	7121-04	Roofer, Asphalt
7121-04	7121-05	Roofer, Asbestos
7121-05	7121-06	Roofer, Slate
7121-06	7121-07	Roofer, Zink
7121-07	7121-08	Installer, Awning

MASCO 2020	MASCO 2013	JOB TITLE
7121-08	7121-09	Installer, Ceiling
7121-09	7121-10	Roofer, Odd Job
7122		**FLOOR LAYERS AND TILE SETTERS**
7122-01	7122-01	Installer, Tile
7122-02	7122-02	Tile Setter
7122-03	7122-03	Marble Setter
7122-04	7122-04	Parquetry Worker
7122-05	7122-05	Cutter-Setter, Mosaic
7122-06	7122-06	Tile Layer
7122-07	7122-07	Marble Cutter
7122-08	7122-08	Marble Polisher
7123		**PLASTERERS**
7123-01	7123-01	Plasterer
7123-02	7123-02	Plasterer, Stucco
7123-03	7123-03	Plasterer, Fibrous
7123-04	7123-04	Plasterer, Ornamental
7123-05	7123-05	Plasterer, Solid
7124		**INSULATION WORKERS**
7124-01	7124-01	Insulation Worker
7124-02	7124-02	Insulation Worker, Building
7124-03	7124-03	Insulation Worker, Boiler
7124-04	7124-04	Insulation Worker, Pipe
7124-05	7124-05	Insulation Worker, Acoustical
7124-06	7124-06	Insulation Worker, Refrigeration Equipment
7124-07	7124-07	Insulation Worker, Air-Conditioning Equipment
7124-08	7124-08	Insulation Worker, Sound-Proofing
7124-09	7124-09	Insulation Installer
7125		**GLAZIERS**
7125-01	7125-01	Glazier
7125-02	7125-02	Glazier, Building
7125-03	7125-03	Glazier, Vehicle
7125-04	7125-04	Glazier, Leaded-Glass
7125-05	7125-05	Glazier, Patent Roofing
7125-06	7125-06	Glazier, Plate-Glass
7125-07	7125-07	Glazier, Roofing
7126		**PLUMBERS AND PIPE FITTERS**
7126-01	7126-04	Plumber
7126-02	7126-05	Pipe Fitter
7126-03	7126-06	Pipe Tube Fitter, Aircraft
7126-04	7126-07	Pipe Fitter, Water Supply
7126-05	7126-08	Pipe Fitter, Sewerage
7126-06	7126-09	Pipe Fitter, Marine
7126-07	7126-10	Pipe Fitter, Ventilation
7126-08	7126-11	Well Digger
7126-09	7126-12	Fitter
7126-10	7119-02	Pipe Layer
7126-11	New	Craftman, Water Boring
7127		**AIR CONDITIONING AND REFRIGERATION MECHANICS**
7127-01	7127-02	Refrigeration Equipment Mechanic
7127-02	7127-03	Air-Conditioning Equipment Mechanic

MASCO 2020	MASCO 2013	JOB TITLE
7131		**PAINTERS AND RELATED WORKERS**
7131-01	7131-02	Painter
7131-02	7131-03	Painter, Glass
7131-03	7131-04	Painter, Ceramics
7131-04	7131-05	Painter, Building
7131-05	7131-06	Painter, Structural Steel
7131-06	7131-07	Wall Paperhanger
7131-07	7131-08	Painter, Manufactured Articles
7131-08	7131-09	Painter, Metal
7131-09	7131-10	Signpainter
7131-10	7131-11	Painter, Ship's Hull
7131-11	New	Powder Coating Painter
7132		**SPRAY PAINTERS AND VARNISHERS**
7132-01	7132-01	Spray-Painter
7132-02	7132-02	Spray-Painter, Metal
7132-03	7132-03	Spray-Painter, Vehicles
7132-04	7132-04	Varnisher
7132-05	7132-05	Varnisher, Manufactured Articles
7132-06	7132-06	Varnisher, Metal
7132-07	7132-07	Varnisher, Wood
7132-08	7132-08	Varnisher, Rattan
7133		**BUILDING STRUCTURE CLEANERS**
7133-01	7133-01	Cleaner, Building Exteriors
7133-02	7133-02	Sandblaster (building exteriors)
7133-03	7133-03	Chimney Sweeper
7211		**METAL MOULDERS AND COREMAKERS**
7211-01	7211-02	Mould Maker
7211-02	7211-03	Mould Repairer, Foundry
7211-03	7211-04	Moulder, Floor, Foundry
7211-04	7211-05	Moulder, Metal
7211-05	7211-06	Moulder, Pit Foundry
7211-06	7211-07	Coremaker
7211-07	7211-08	Coremaker, Metal
7211-08	7211-09	Core Checker, Foundry
7211-09	7211-10	Moulder
7211-10	New	Foundryman
7212		**WELDERS AND FLAME CUTTERS**
7212-01	7212-03	Welder
7212-02	7212-04	Flame Cutter
7212-03	7212-05	Foreman, Welder
7212-04	7212-06	Plumbum Burner
7212-05	7212-07	Gas Tungsten Arc Welder
7212-06	7212-08	Underwater Welder
7212-07	7212-09	Brazier
7212-08	New	Metal Welder
7212-09	New	Gas Pipe Welder
7212-10	New	Fabricator Welder
7213		**SHEET-METAL WORKERS**
7213-01	7213-03	Sheet Metal Worker
7213-02	7213-04	Coppersmith
7213-03	7213-05	Boilermaker
7213-04	7213-06	Borer
7213-05	7213-07	Sheet Metal Worker, Vehicle
7213-06	7213-08	Sheet Metal Worker, Ornamental

MASCO 2020	MASCO 2013	JOB TITLE
7213-07	7213-09	Sheet Metal Worker, Aircraft
7213-08	7213-10	Panel Beater, Vehicle
7213-09	7213-11	Panel Beater, Aircraft
7213-10	7213-12	Marker, Sheet Metal
7213-11	7213-13	Tinsmith
7213-12	7213-14	Solderer, Metal
7213-13	7213-15	Solderer
7214		**STRUCTURAL-METAL PREPARERS AND ERECTORS**
7214-01	7214-01	Structural Steel Worker
7214-02	7214-02	Erector, Constructional Steel
7214-03	7214-03	Ship Plater
7214-04	7214-04	Riveter
7214-05	7214-05	Marker, Structural Metal
7214-06	7214-06	Shipwright, Metal
7214-07	7214-07	Erector, Structural Metal
7214-08	7214-08	Preparer, Structural Metal
7214-09	New	Ship Hull Fitter
7215		**RIGGERS AND CABLE SPLICERS**
7215-01	7215-03	Rigger
7215-02	7215-04	Rigger, Hoisting Equipment
7215-03	7215-05	Rigger, Hoisting Equipment Construction
7215-04	7215-06	Rigger, Logging
7215-05	7215-07	Rigger, Ship
7215-06	7215-08	Rigger, Petroleum and Gas Well Drilling
7215-07	7215-09	Splicer, Rope and Cable
7215-08	7215-10	Rigger, Aircraft
7215-09	7215-11	Rigger, Railway Cable
7221		**BLACKSMITHS, HAMMERSMITHS AND FORGING-PRESS WORKERS**
7221-01	7221-02	Blacksmith
7221-02	7221-03	Hammersmith
7221-03	7221-04	Worker, Drop-Hammer
7221-04	7221-05	Worker, Forging Metal
7221-05	7221-06	Toolsmith
7222		**TOOLMAKERS AND RELATED WORKERS**
7222-01	7222-03	Tool and Die Maker
7222-02	7222-04	Pattern-Maker, Metal Foundry
7222-03	7222-05	Jig Maker and Fixture
7222-04	7222-06	Marker, Metal
7222-05	7222-07	Keysmith
7222-06	7222-08	Locksmith
7222-07	7222-09	Gunsmith
7222-08	New	Static Equipment Maintenance Fitter
7223		**METAL WORKING MACHINE TOOL SETTERS AND OPERATORS**
7223-01	7223-01	Metal Working Machine Adjuster
7223-02	7223-02	Metal Working Machine Operator
7223-03	7223-03	Metal Working Machine Setter
7223-04	7223-04	Boring Machine Operator
7223-05	7223-05	Machine Tool Setter
7223-06	7223-06	Machine Tool Operator
7223-07	7223-07	Machine Tool Setter-Operator
7224		**METAL POLISHERS, WHEEL GRINDERS AND TOOL SHARPENERS**
7224-01	7224-01	Metal Grinder
7224-02	7224-02	Cutting Instruments Sharpener

MASCO 2020	MASCO 2013	JOB TITLE
7224-03	7224-03	Machine Tools Sharpener
7224-04	7224-04	Saw Repairer
7224-05	7224-05	Saw Sharpener
7224-06	7224-06	Saw Servicer
7224-07	7224-07	Textile Card Grinder
7224-08	7224-08	Crankshaft Grinder
7224-09	7224-09	Metal Polisher
7224-10	7224-10	Metal Finisher
7224-11	7224-11	Thread Grinder
7224-12	7224-12	Knife Sharpener
7224-13	7224-13	Tool Grinder
7231		**MOTOR VEHICLE MECHANICS AND REPAIRERS**
7231-01	7231-03	Mechanic
7231-02	7231-04	Earth-Moving Equipment Mechanic
7231-03	7231-05	Motorcycle Mechanic
7231-04	7231-06	Motor Vehicles Mechanic
7231-05	7231-07	Workshop Mechanic
7231-06	7231-08	Garage Mechanic
7231-07	7231-09	Workshop Worker
7231-08	7231-10	Vehicle Foreman
7231-09	7231-11	Automotive Mechanic
7231-10	7231-12	Vehicles Body Frame Maker
7231-11	7231-13	Vehicles Body Panel's Beater
7231-12	7231-14	Sealant Installer
7231-13	7231-15	Car Detailer
7231-14	7231-16	Automotive Brakes Systems Service Mechanic
7231-15	7231-17	Diesel Fitter (road transport)
7231-16	7231-18	Engine Fitter (motor vehicle)
7231-17	7231-19	Motor Vehicle Engine and Fuel Systems Mechanic
7231-18	7231-20	Motor Vehicle Mechatronics Mechanic
7231-19	7231-21	Motor Vehicle Repairer
7231-20	7231-22	Small Engine Mechanic
7231-21	New	Chief, Mechanic
7231-22	New	Electric Car Maintenance Mechanic
7231-23	New	Natural Gas Vehicle Maintenance Mechanic
7231-24	New	Fuel Cell Vehicle Maintenance Mechanic
7231-25	New	Pit Crew
7232		**AIRCRAFT ENGINE MECHANICS AND REPAIRERS**
7232-01	7232-01	Aircraft Engine Mechanic
7232-02	7232-02	Aircraft Engine Fitter
7232-03	7232-03	Aircraft Maintenance Engineer (Airframes) Mechanic
7232-04	7232-04	Helicopter Mechanic
7232-05	7232-05	Aircraft Maintenance Engineer (Engines) Mechanic
7232-06	7232-06	Aircraft Maintenance Mechanic
7232-07	7232-07	Aircraft Mechanic
7232-08	7232-08	Airframe and Power Plant Mechanic
7232-09	7232-09	Airframe Mechanic
7232-10	7232-10	Jet Engine Mechanic
7232-11	7232-11	Pneudraulic Systems Mechanic (Aircraft)
7232-12	7232-12	Powerplant Mechanic (Aircraft)
7232-13	7232-13	Rocket Engine Component Mechanic
7233		**AGRICULTURAL AND INDUSTRIAL MACHINERY MECHANICS AND REPAIRERS**
7233-01	7233-01	Machinery Mechanic
7233-02	7233-02	Mining Machinery Mechanic
7233-03	7233-03	Mechanic, Machine-Tool
7233-04	7233-04	Mechanic, Industrial Machinery

MASCO 2020	MASCO 2013	JOB TITLE
7233-05	7233-05	Mechanic, Plant Maintenance
7233-06	7233-06	Oiler and Greaser
7233-07	7233-07	Construction Machinery Mechanic
7233-08	7233-08	Construction Machinery Repairer
7233-09	7233-09	Farm Machinery Repairer
7233-10	7233-10	Mining Machinery Fitter
7233-11	7233-11	Mining Machinery Repairer
7233-12	7233-12	Stationary Engine Fitter
7233-13	7233-13	Stationary Engine Repairer
7233-14	New	Industrial Machinist
7233-15	New	CNC Machinist (Computer Numerical Control)
7233-16	New	Filter, Machinery
7234		**BICYCLE AND RELATED REPAIRERS**
7234-01	7234-01	Bicycle Repairer
7234-02	7234-02	Trishaw Repairer
7234-03	7234-03	Reel Repairer
7234-04	7234-04	Bicycle Mechanic
7234-05	7234-05	Perambulator Repairer
7234-06	7234-06	Wheelchair Repairer
7239		**MACHINERY MECHANICS AND REPAIRERS Not Elsewhere Classified**
7239-01	7239-01	Marine Engine Mechanic
7239-02	7239-02	Ship Mechanic
7239-03	7239-03	Train Engine Fitter
7239-04	7239-04	Train Engine Repairer
7239-05	3119-06	Factory and Machinery Inspector Assistant Grade J19
7239-06	New	Assistant Mechanic
7311		**PRECISION INSTRUMENT MAKERS AND REPAIRERS**
7311-01	7311-01	Precision Instrument Maker
7311-02	7311-02	Scientific Instrument Maker
7311-03	7311-03	Surgical Instrument Maker
7311-04	7311-04	Photographic Equipment Maker
7311-05	7311-05	Dental Prosthesis Maker
7311-06	7311-06	Orthopedic Appliance Maker
7311-07	7311-07	Watches and Clock Maker
7311-08	7311-08	Optical Instrument Maker
7311-09	7311-09	Balancing Maker
7311-10	7311-10	Barometer Maker
7311-11	7311-11	Meteorological Instrument Maker
7311-12	7311-12	Nautical Instrument Maker
7311-13	7311-13	Dental Prosthesis Repairer
7311-14	7311-14	Orthopedic Appliance Repairer
7311-15	7311-15	Watch and Clock Repairer
7311-16	7311-16	Optical Instrument Repairer
7311-17	7311-17	Balancing Machine Repairer
7312		**MUSICAL INSTRUMENT MAKERS AND TUNERS**
7312-01	7312-01	Musical Instrument Maker
7312-02	7312-02	Musical Instrument Tuner
7312-03	7312-03	Stringed-Musical Instrument Maker
7312-04	7312-04	Piano Maker
7312-05	7312-05	Drum Maker
7312-06	New	Wood-Wind Musical Instrument Maker
7312-07	New	Turner, Musical Instrument
7313		**JEWELLERY AND PRECIOUS-METAL WORKERS**
7313-01	7313-01	Jeweller

MASCO 2020	MASCO 2013	JOB TITLE
7313-02	7313-02	Goldsmith
7313-03	7313-03	Silversmith
7313-04	7313-04	Pewtersmith
7313-05	7313-05	Jewellery Repairer
7313-06	7313-06	Gold Grader
7313-07	7313-07	Gem Slicer
7313-08	7313-08	Gem Setter
7313-09	7313-09	Precious Metal Roller
7313-10	7313-10	Jewellery Engraver
7313-11	7313-11	Gem Polisher
7313-12	7313-12	Jewellery Enameller
7313-13	7313-13	Gold Rolling Mill Worker
7314		**POTTERS AND RELATED WORKERS**
7314-01	7314-01	Potter
7314-02	7314-02	Presser, Brick and Tile
7314-03	7314-03	Modeller, Pottery and Porcelain
7314-04	7314-04	Caster, Pottery and Porcelain
7314-05	7314-05	Turner, Pottery and Porcelain
7314-06	7314-06	Thrower, Pottery and Porcelain
7314-07	7314-07	Maker, Pottery and Porcelain Mould
7314-08	7314-08	Presser, Pottery and Porcelain
7314-09	7314-09	Jiggerer, Pottery and Porcelain
7315		**GLASS MAKERS, CUTTERS, GRINDERS AND FINISHERS**
7315-01	7315-02	Glass Bender
7315-02	7315-03	Glass Blower
7315-03	7315-04	Glass Cutter
7315-04	7315-05	Optical Glass Cutter
7315-05	7315-06	Glass Polisher
7315-06	7315-07	Glass Grinder
7315-07	7315-08	Glass Lens Moulder
7315-08	7315-09	Glass Finisher
7315-09	7315-10	Glass Frame Fabricator
7316		**SIGN WRITERS, DECORATIVE PAINTERS, ENGRAVERS AND INSCRIBERS**
7316-01	7316-01	Etcher
7316-02	7316-02	Engraver
7316-03	7316-03	Sandblaster, Glass
7316-04	7316-04	Ceramics Dipper
7316-05	7316-05	Enameller
7316-06	7316-06	Silverer, Mirror
7316-07	7316-07	Electrotyper
7316-08	7316-08	Stereotyper
7316-09	7316-09	Router, Printing Plate
7316-10	7316-10	Decorative Painter
7316-11	7316-11	Sign-writer
7316-12	New	Engraver, Glass
7317		**HANDICRAFT WORKERS OF WOOD, BASKETRY AND RELATED MATERIALS**
7317-01	7317-02	Mat Weaver
7317-02	7317-03	Handicraft Worker, Wooden Articles
7317-03	7317-04	Basket Maker
7317-04	7317-05	Broom Maker
7317-05	7317-06	Handicraft Worker, Reed Weaving
7317-06	7317-07	Handicraft Worker, Stone Articles
7317-07	7317-08	Brush Maker
7317-08	7317-09	Rattan Furniture Maker
7317-09	7317-10	Wicker Maker

MASCO 2020	MASCO 2013	JOB TITLE
7317-10	7317-11	Instructor, Spinner
7318		**HANDICRAFT WORKERS OF TEXTILE, LEATHER AND RELATED MATERIALS**
7318-01	7318-01	Weaver, Songket
7318-02	7318-02	Batik Painter
7318-03	7318-03	Maker, Leather Goods
7318-04	7318-04	Handicraft Worker, Carpets
7318-05	7318-05	Handicraft Worker, Leather
7318-06	7318-06	Handicraft Worker, Textiles
7318-07	7318-07	Textile Fibre Comber
7318-08	7318-08	Textile Fibre Rover
7318-09	7318-09	Knitter
7318-10	7318-10	Thread and yarn spinner
7318-11	7318-11	Carpet Weaver
7319		**HANDICRAFT WORKERS NOT ELSEWHERE CLASSIFIED**
7319-01	7319-01	Batch Maker
7319-02	7319-02	Craftsman
7319-03	7319-03	Metal Toymaker
7319-04	New	Accessories Maker
7319-05	New	Handicraft Worker
7321		**PRE-PRESS WORKERS**
7321-01	7321-02	Compositor
7321-02	7321-05	Braille Plate Maker
7321-03	7321-03	Typesetter
7321-04	7321-04	Desktop Publishing Equipment Worker
7321-05	7321-06	Press Line Worker
7321-06	7321-07	Profiling Line Worker
7321-07	7321-08	Screen Maker
7321-08	7321-09	Electronic Pre-Press Technician
7321-09	7321-10	Plat Maker (Printing)
7322		**PRINTERS**
7322-01	7322-01	Printer
7322-02	7322-02	Textile Printer
7322-03	7322-03	Block Printer
7322-04	7322-04	Press-Operator, Embossing
7322-05	7322-05	Tracer, Textile Design
7322-06	7322-06	Digital Press Operator
7322-07	7322-07	Feeder Operator (Printing)
7322-08	7322-08	Flexographic Press-Operator
7322-09	7322-09	Gravure Press-Operator
7322-10	7322-10	Screen Printer
7322-11	7322-11	Screen Printing Press-Operator
7322-12	7322-12	Web Press-Operator
7322-13	7322-13	Printing Press-Operator, Cylinder
7322-14	7322-14	Printing Press-Operator, Offset
7322-15	7322-15	Printing Press-Operator, Rotary
7322-16	7322-16	Printing Press-Operator, Rotogravure
7322-17	7322-17	Printing Press-Operator, Direct Lithographic
7322-18	7322-18	Printing Press-Operator, Wallpaper
7322-19	7322-19	Printer, Wallpaper
7322-20	7322-20	Printing Operator
7322-21	New	Assistant Printing
7323		**PRINT FINISHING AND BINDING WORKERS**
7323-01	7323-01	Bookbinder
7323-02	7323-02	Paper Cutter

MASCO 2020	MASCO 2013	JOB TITLE
7323-03	7323-03	Map and Chart Mounter
7323-04	7323-04	Book Embosser
7323-05	7323-05	Book Finisher
7323-06	7323-06	Collator Operator
7323-07	7323-07	Cutter Operator
7323-08	7323-08	Foil Stamp Operator
7323-09	7323-09	Folder Operator
7323-10	7323-10	Multibinder Operator
7323-11	7323-11	Perfect Binding Operator
7323-12	7323-12	Saddle Stitch Operator
7323-13	7323-13	Machine Operator, Bookbinding
7323-14	7323-14	Machine Operator, Embossing Book
7324		**PRINTING AND PHOTO ENGRAVERS AND ETCHERS**
7324-01	7324-01	Engraver, Printing Metal Plate
7324-02	7324-02	Etcher, Printing Metal Plate
7324-03	7324-03	Engraver, Printing Lithographic Stone
7324-04	7324-04	Photo-Engraver
7324-05	7324-05	Worker, Darkroom
7324-06	7324-06	Developer, Film Color and Black and White
7324-07	7324-07	Developer, Film X-Ray
7411		**BUILDING AND RELATED ELECTRICIANS**
7411-01	7411-02	Electrician, Building
7411-02	7411-03	Electrician, Construction
7411-03	7411-04	Electrician
7412		**ELECTRICAL MECHANICS AND FITTERS**
7412-01	7412-01	Chargeman Grade J19
7412-02	7412-02	Chargeman Grade 11
7412-03	7412-04	High Voltage Restriction Chargeman
7412-04	7412-05	Electrical Fitter
7412-05	7412-06	Electrical Elevator Fitter
7412-06	New	Wireman
7412-07	7412-08	Electrical Repairman, Household Appliance
7412-08	7412-09	Foreman, Electrical
7412-09	7412-10	Foreman, Maintenance
7412-10	7412-11	Electrical Generator Operator
7412-11	7412-12	Electrical Office-Machinery Fitter
7412-12	7412-13	Electrical Motors and Dynamos Fitter
7412-13	7412-14	Maintenance Fitter
7412-14	7412-15	Electrician, Ship
7412-15	7412-16	Electrician, Vehicle
7412-16	7412-17	Electrician, Aircraft
7412-17	7412-18	Electrician, Stage and Studio
7412-18	7412-19	Lift Mechanic
7412-19	7412-20	Electrical Mechanics
7412-20	7412-21	Electrical Generator Fitter
7412-21	New	Chargeman
7412-22	New	Chargeman Grade P4
7412-23	New	AO Chargeman
7412-24	New	BO Chargeman
7412-25	New	Electrical Wireman
7413		**ELECTRICAL LINE INSTALLERS AND REPAIRERS**
7413-01	7413-06	Electrical Power Line Worker
7413-02	7413-07	Cable Line Worker
7413-03	7413-08	Electric Cable Jointer
7413-04	7413-09	Installer, Underground Cable

MASCO 2020	MASCO 2013	JOB TITLE
7413-05	7413-10	Installer, Underwater Cable
7413-06	7413-11	Rectifier System Worker
7413-07	7413-12	Electrician, Maintenance
7413-08	New	Solar Thermal Installation and Maintenance Installer
7413-09	New	Solar Photovoltaic Installation and Maintenance Installer
7413-10	New	Solar Hotwater Installation And Maintenance Installer
7413-11	New	Biomass Installation and Maintenance Installer
7413-12	New	Hydro Installation and Maintenance Installer
7421		**ELECTRONICS MECHANICS AND SERVICES**
7421-01	7421-01	Fitter, Electronics
7421-02	7421-02	Repairer, Electronics
7421-03	7421-03	Fitter, Electronics Industrial Equipment
7421-04	7421-04	Fitter, Electronics Meteorological Equipment
7421-05	7421-05	Mechanic, Electronic Instrument
7422		**INFORMATION AND COMMUNICATIONS TECHNOLOGY INSTALLERS AND SERVICES**
7422-01	7422-01	Telephone Wireman
7422-02	7422-02	Telephone and Telegraph Installer
7422-03	7422-03	Telephone and Telegraph Mechanic
7422-04	7422-04	Telephone and Telegraph Servicer
7422-05	7422-05	Information Technology Support Worker
7422-06	7422-06	Data and Telecommunications Cabler
7422-07	7422-07	Computer Equipment Fitter
7422-08	7422-08	Fitter, Electronics Radio Television Equipment
7422-09	7422-09	Fitter, Electronics Video and Radar Equipment
7422-10	7422-10	Fitter, Electronics Radar Equipment
7422-11	7422-11	Fitter, Electronics Computer
7422-12	7422-12	Operator, Network
7422-13	7422-13	Operator, Wireless Equipment
7422-14	New	Computer Operator Grade 14
7511		**MEAT AND FISH PROCESS WORKERS AND RELATED FOOD PREPARERS**
7511-01	7511-01	Slaughterer
7511-02	7511-02	Chipper Meat
7511-03	7511-03	Meat Slicer
7511-04	7511-04	Sausage Maker
7511-05	7511-05	Meat Curer
7511-06	7511-06	Fish Salter
7511-07	7511-07	Fish Pickler
7511-08	7511-08	Fish Filleter
7511-09	New	Bird's Nest Cleaner
7511-10	New	Halal Checker, Slaughterhouse
7511-11	New	Halal Slaughterer, Slaughterhouse
7512		**BAKERS, PASTRY, PASTA AND CONFECTIONERY MAKERS**
7512-01	7512-01	Baker
7512-02	7512-02	Pastry Baker
7512-03	7512-03	Confectionary Maker
7512-04	7512-04	Chocolate Maker
7512-05	7512-05	Yeast Maker
7512-06	7512-06	Noodle Maker
7512-07	7512-07	Pasta Maker
7512-08	New	Maker, Chewing-Gum
7512-09	New	Bakery Assistant
7513		**DAIRY-PRODUCTS MAKERS**
7513-01	7513-01	Cheese Maker
7513-02	7513-02	Yogurt Maker

MASCO 2020	MASCO 2013	JOB TITLE
7513-03	7513-03	Butter Maker
7514		**FRUIT, VEGETABLE AND RELATED PRESERVERS**
7514-01	7514-01	Fruit Preserver
7514-02	7514-02	Vegetable Preserver
7514-03	7514-03	Fruit Juice Maker
7514-04	7514-04	Syrup Maker
7514-05	7514-05	Vegetable Juice Maker
7514-06	7514-06	Cooking Oil Extracter
7514-07	7514-07	Oil Expeller
7514-08	New	Vegetable /fruit pickler
7515		**FOOD AND BEVERAGE TASTERS AND GRADERS**
7515-01	7515-01	Tester, Food
7515-02	7515-02	Tester, Beverages
7515-03	7515-03	Grader, Food
7515-04	7515-04	Tester and Grader, Tea
7515-05	7515-05	Tester and Grader, Coffee
7515-06	7515-06	Taster and Grader, Food
7515-07	7515-07	Taster and Grader, Liquor
7515-08	7515-08	Grader, Meat
7515-09	7515-09	Grader, Fruit
7515-10	7515-10	Grader, Vegetable
7515-11	7515-11	Taster, Juice
7515-12	7515-12	Grader, Oil
7515-13	7515-13	Grader , Paddy
7515-14	7515-14	Examiner, Paddy
7515-15	7515-15	Sorter, Paddy
7515-16	7515-16	Grader, Fish
7515-17	7515-17	Grader, Oil Palm Fruite
7515-18	7515-18	Grader, Egg
7515-19	7515-19	Grader, Bird Nest
7515-20	New	Quality Inspector, Halal Meat Processing
7516		**TOBACCO PREPARERS AND TOBACCO PRODUCTS MAKERS**
7516-01	7516-01	Grader, Tobacco
7516-02	7516-02	Maker, Cigar
7516-03	7516-03	Maker, Cigarette
7516-04	7516-04	Quality Checker, Cigarette
7516-05	7516-05	Sorter, Tobacco
7516-06	7516-06	Curer, Tobacco
7516-07	7516-07	Tobacco Dryer
7516-08	7516-08	Tobacco Slicer
7611		**WOOD TREATERS**
7611-01	7611-01	Wood Impregnator
7611-02	7611-02	Wood Treater
7611-03	7611-03	Wood Seasoner
7611-04	7611-04	Grader, Wood
7611-05	New	Grader, Veneer
7612		**CABINET-MAKERS AND RELATED WORKERS**
7612-01	7612-02	Maker, Cabinet
7612-02	7612-03	Builder, Bullock Cart
7612-03	7612-04	Maker, Furniture
7612-04	7612-05	Maker, Coffin
7612-05	7612-06	Maker, Clog
7612-06	7612-07	Maker, Model Wooden
7612-07	7612-08	Veneer Applier

MASCO 2020	MASCO 2013	JOB TITLE
7612-08	7612-09	Maker, Picture Frame
7612-09	7612-10	Turner, Wood (Hand)
7612-10	7612-11	Inlayer, Marquetry
7612-11	7612-12	Marker, Woodworking
7612-12	7612-13	Pattern-Maker, Wood Patterns
7612-13	7612-14	Maker, Toy Wood
7612-14	7612-15	Maker, Sports Equipment Wood
7612-15	7612-16	Polisher, Wood
7612-16	7612-17	Lacquerer, Wood
7612-17	7612-18	Carver, Wood
7612-18	7612-19	Wood patternmaker
7613		**WOODWORKING-MACHINE TOOL SETTERS AND OPERATORS**
7613-01	7613-01	Adjuster, Wood Machine
7613-02	7613-02	Operator, Wood Machine
7613-03	7613-03	Setter, Wood Machine
7613-04	7613-04	Carving Machine Operator (wood)
7613-05	7613-06	Precision Woodworking Sawyer
7613-06	7613-09	Woodworking Machine Setter
7613-07	7613-10	Woodworking Machine Set-Up Operator
7621		**TAILORS, DRESSMAKERS, FURRIERS AND HATTERS**
7621-01	7621-02	Tailor
7621-02	7621-03	Dressmaker
7621-03	7621-04	Milliner
7621-04	7621-05	Maker, Songkok
7621-05	7621-06	Maker, Hat / Cap
7621-06	7621-07	Maker, Wig
7621-07	7621-08	Operator, Sewing
7621-08	7621-09	Sewer
7621-09	7621-10	Worker, Sewing
7621-10	7621-11	Carpet Mender
7621-11	7621-12	Embroiderer, Hand
7621-12	7621-13	Maker, Artificial Flower
7621-13	7621-14	Maker, Doll and Stuffed-Toy
7621-14	7621-15	Repairer, Fabrics Knitted
7621-15	7621-16	Lacer, Hand
7621-16	7621-17	Maker, Sack
7621-17	7621-18	Maker, Sail, Tent and Awning
7621-18	7621-19	Maker, Umbrella
7621-19	7621-20	Maker, Hand Braid
7621-20	7621-21	Maker, Hand Net
7621-21	7621-22	Loom Threader, Hand
7621-22	7621-23	Weaver, Hand Cloth
7621-23	7621-24	Crocheter, Hand
7621-24	7621-25	Knitter, Hand
7621-25	7621-26	Instructor, Weaving
7621-26	7621-27	Maker, Scarft
7621-27	7621-28	Maker, Telekung
7621-28	7621-29	Furrier
7621-29	New	Sample Maker
7622		**GARMENT AND RELATED PATTERN-MAKERS AND CUTTERS**
7622-01	7622-01	Pattern-Maker, Garment
7622-02	7622-02	Pattern-Maker, Hat
7622-03	7622-03	Maker, Garment
7622-04	7622-04	Cutter, Garment
7622-05	7622-05	Cutter, Tent
7622-06	7622-06	Cutter, Sail

MASCO 2020	MASCO 2013	JOB TITLE
7622-07	7622-07	Cutter, Umbrella
7622-08	7622-08	Cutter, Gloves
7622-09	7622-09	Cutter, Mattres
7622-10	7622-10	Pattern-Maker, Paper
7622-11	7622-11	Pattern-Maker, Tents
7622-12	7622-12	Pattern-Maker, Sails
7622-13	7622-13	Pattern-Maker, Umbrella
7622-14	7622-14	Pattern-Maker, Gloves
7622-15	7622-15	Pattern-Maker, Mattres
7622-16	7622-16	Pattern-Maker, Fur
7623		**SHOEMAKERS AND RELATED WORKERS**
7623-01	7623-01	Shoemaker
7623-02	7623-02	Shoemaker, Orthopedic
7623-03	7623-03	Maker, Footwear Surgical
7623-04	7623-04	Repairer, Footwear
7623-05	7623-05	Cobbler
7623-06	7623-06	Pattern-Maker, Shoe
7623-07	7623-07	Maker, Footwear Sports
7623-08	7623-08	Maker, Sports Equipment Footwear
7623-09	7623-09	Maker, Leather Handbag
7623-10	7623-10	Maker, Purse
7623-11	7623-11	Maker, Belt
7624		**UPHOLSTERERS AND RELATED WORKERS**
7624-01	7624-01	Upholsterer, Furniture
7624-02	7624-02	Upholsterer, Vehicle
7624-03	7624-03	Maker, Mattres
7624-04	7624-04	Maker, Cushion
7624-05	7624-05	Maker, Soft Furnishing
7624-06	7624-06	Maker, Bedding
7624-07	7624-07	Upholsterer, Aircraft
7624-08	7624-08	Upholsterer, Railway Carriage
7624-09	7624-09	Upholsterer, Orthopaedic
7625		**PELT DRESSERS, TANNERS AND FELLMONGERS**
7625-01	7625-01	Pelt Dressers
7625-02	7625-02	Tanners
7625-03	7625-03	Fellmonger
7625-04	New	Sertu
7631		**UNDERWATER DIVERS**
7631-01	7631-01	Diver
7631-02	7631-02	Diver, Construction
7631-03	7631-03	Underwater Worker
7631-04	7631-04	Underwater Diver
7632		**SHOTFIRERS AND BLASTERS**
7632-01	7632-01	Shotfire
7632-02	7632-02	Blaster
7632-03	7632-03	Blasting Worker
7632-04	7632-04	Detonator
7633		**PRODUCT GRADERS AND TESTERS (EXCLUDING FOODS AND BEVERAGES)**
7633-01	7633-01	Grader, Fibre
7633-02	7633-02	Quality Inspector
7633-03	7633-03	Wool Classer

MASCO 2020	MASCO 2013	JOB TITLE
7634		**FUMIGATORS, PEST AND WEED CONTROLLERS**
7634-01	7634-01	Pest Controller
7634-02	7634-02	Fumigator
7634-03	7634-03	Forging Worker, Bee
7634-04	7634-04	Forging Worker, Mosquito
7634-05	7634-05	Forging Worker, Ant
7634-06	7634-06	Fumigation Operator, Service
7634-07	7634-07	Fumigation Operator, Weed
7634-08	7634-08	Fumigation Operator, Soil
7634-09	7634-09	Weed Controller
7639		**OTHER RELATED CRAFT WORKERS NOT ELSEWHERE CLASSIFIED**
7639-01	7639-03	Optical Lens Finisher
7639-02	7639-04	Optical Lens Moulder
7639-03	New	Camera Operator
7639-04	New	Skilled Assistant Grade H19
8	8	PLANT AND MACHINE OPERATORS, AND ASSEMBLERS
8111		**MINERS AND QUARRY WORKERS**
8111-01	8111-01	Miner
8111-02	8111-02	Quarier
8111-03	8111-03	Machine Operator, Drilling
8111-04	8111-04	Machine Operator, Mine Drilling
8111-05	8111-05	Cutting Machine Operator, Mine
8111-06	8111-06	Sampler, Mine
8111-07	8111-07	Drilling Machine Operator, Quarry
8111-08	8111-08	Sampler, Quarry
8111-09	8111-09	Timberman, Underground
8111-10	8111-10	Dragline Operator (Mining)
8111-11	8111-11	Mining Plant Operator
8111-12	New	Roof Bolter (mining)
8111-13	8111-13	Coal Miner
8112		**MINERAL AND STONE PROCESSING PLANT OPERATORS**
8112-01	8112-01	Machine Operator, Stone Processing
8112-02	8112-02	Machine Operator, Stone Splitting
8112-03	8112-03	Machine Operator, Stone Crushing
8112-04	8112-04	Machine Operator, Stone Milling
8112-05	8112-05	Machine Operator, Mineral Milling
8112-06	8112-06	Operator, Magnetic Separator
8112-07	8112-07	Worker, Mineral Floatation
8112-08	8112-08	Dresser, Tin Ore
8112-09	8112-09	Keeper, Jig
8112-10	8112-10	Plant Processing Operator, Mineral and Stone
8112-11	8112-11	Batching Plant Operator
8112-12	8112-12	Coal washer
8112-13	8112-13	Crusher Operator (Mineral or Stone Processing)
8113		**WELL DRILLERS AND BORERS AND RELATED WORKERS**
8113-01	8113-01	Operator, Drilling Equipment
8113-02	8113-02	Operator, Cable Drilling Equipment
8113-03	8113-03	Operator, Well Drilling Equipment
8113-04	8113-04	Operator, Oil and Gas Well Derrick
8113-05	8113-05	Operator, Oil and Gas Well Pulling Equipment
8113-06	8113-06	Machine Operator, Well Boring Equipment
8113-07	8113-07	Driller
8113-08	8113-08	Attendant, Trommel
8113-09	8113-09	Boring Equipment Operator

MASCO 2020	MASCO 2013	JOB TITLE
8113-10	8113-10	Bore Sinker
8113-11	8113-11	Derrick man
8113-12	8113-12	Derrick Operator
8113-13	8113-13	Tool Pusher
8113-14	8113-14	Tour Pusher
8113-15	New	Operator, Drilling Equipment Rotary
8113-16	New	Wireline Operator
8113-17	New	Assistant Driller
8113-18	New	Service Operator
8113-19	New	Operator Assistance – L&PI,II
8114		**CEMENT, STONE AND OTHER MINERAL PRODUCTS MACHINE OPERATORS**
8114-01	8114-01	Machine Operator, Concrete Mixing
8114-02	8114-02	Machine Operator, Cast Concrete Products
8114-03	8114-03	Machine Operator, Cement Product
8114-04	8114-04	Machine Operator, Asbestos
8114-05	8114-05	Machine Operator, Asbestos-Cement Product
8114-06	8114-06	Machine Operator, Cast Stone
8114-07	8114-07	Machine Operator, Terrazzo Tile
8114-08	8114-08	Machine Operator, Abrasive Coating
8114-09	8114-09	Machine Operator, Diamond Polishing
8114-10	8114-10	Machine Operator, Stone Polishing
8121		**METAL PROCESSING PLANT OPERATORS**
8121-01	8121-01	Furnace-operator
8121-02	8121-02	Furnace-Operator, Refining Steel
8121-03	8121-03	Furnace-Operator, Converting Steel
8121-04	8121-04	Hot-Roller Operator, Steel
8121-05	8121-05	Furnace-Operator, Metal Melting
8121-06	8121-06	Furnace-Operator, Metal Melting (Blast-Furnace)
8121-07	8121-07	Furnace-Operator, Metal Reheating
8121-08	8121-08	Furnace-Operator, Metal Case-Hardening
8121-09	8121-09	Furnace-Operator, Metal Hardening
8121-10	8121-10	Furnace-Operator, Non-Ferrous Refining Metal
8121-11	8121-11	Converter Blowing Operator, Steel Converting
8121-12	8121-12	Furnace-Operator, Metal Heat-Treating
8121-13	8121-13	Machine Operator, Metal Drawing
8121-14	8121-14	Machine Operator, Die-Casting
8121-15	8121-15	Machine Operator, Metal Casting
8121-16	8121-16	Machine Operator, Centrifugal Casting
8121-17	8121-17	Operator, Non-Ferrous Metal Rolling Mill
8121-18	8121-18	Operator, Mill Table
8121-19	8121-19	Drawer, Metal
8121-20	8121-20	Extruder, Metal
8121-21	8121-21	Annealer, Metal
8121-22	8121-22	Machine Operator, Barbed-Wire
8121-23	8121-23	Machine Operator, Seamless Pipe and Tube
8121-24	8121-24	Machine Operator, Wire Stripping and Cutting
8121-25	8121-25	Machine Operator, Wire Drawing
8121-26	8121-26	Machine Operator, Insulating
8121-27	8121-27	Machine Operator, Wire Extruding
8121-28	8121-28	Drawer, Wire
8121-29	8121-29	Drawer, Seamless Pipe and Tube
8121-30	8121-30	Smelting Operator
8121-31	8121-31	Operator, Steel Fabricator
8121-32	8121-32	Steel Roller
8122		**METAL FINISHING, PLATING AND COATING MACHINE OPERATORS**
8122-01	8122-01	Machine Operator, Metal Electroplating

MASCO 2020	MASCO 2013	JOB TITLE
8122-02	8122-02	Electroplater
8122-03	8122-03	Machine Operator, Metal Dipping
8122-04	8122-04	Hot-Dip Plater
8122-05	8122-05	Machine Operator, Galvanishing Metal
8122-06	8122-06	Galvaniser
8122-07	8122-07	Machine Operator, Sandblaster Equipment
8122-08	8122-08	Sandblaster, Metal
8122-09	8122-09	Machine Operator, Cast Metal Article Finishing
8122-10	8122-10	Casting Finisher
8122-11	8122-11	Cleaner, Metal
8122-12	8122-12	Machine Operator, Sprying Metal
8122-13	8122-13	Oxidizer
8122-14	8122-14	Operator, Moulding
8131		**CHEMICAL PRODUCTS PLANT AND MACHINE OPERATORS**
8131-01	8131-01	Machine Operator, Paint-Mixing
8131-02	8131-02	Machine Operator, Chemical Process Mixing and Blending
8131-03	8131-03	Machine Operator, Glue-Mixing
8131-04	8131-04	Machine Operator, Chemical Processes Pulverising
8131-05	8131-05	Roll-Mill Operator, Chemical Processes
8131-06	8131-06	Crushing Operator, Chemical Processes
8131-07	8131-07	Match Compounder, Chemical Processes
8131-08	8131-08	Heat-Treating Plant Operator, Chemical Processes
8131-09	8131-09	Dry Operator, Chemical Processes
8131-10	8131-10	Cooking Equipment Operator, Chemical Processes
8131-11	8131-11	Roasting Equipment Operator, Chemical Processes
8131-12	8131-12	Retort Operator, Chemical Processes
8131-13	8131-13	Spray-Dried Operator, Chemical Processes
8131-14	8131-14	Kiln-Operator, Chemical Processes
8131-15	8131-15	Cement Furnaceman
8131-16	8131-16	Roaster, Chemical Processes
8131-17	8131-17	Cooker, Chemical Processes
8131-18	8131-18	Press-Operator, Chemical Processes Filter
8131-19	8131-19	Sieving Machine Operator, Chemical Processes
8131-20	8131-20	Separator Operator, Chemical Processes
8131-21	8131-21	Crude Oil Treating Equipment Operator
8131-22	8131-22	Rotary Drum Filterer
8131-23	8131-23	Acid Plant Operator
8131-24	8131-24	Fertilizer Plant Operator
8131-25	8131-25	Bleach Operator, Chemical
8131-26	8131-26	Vacuum Pan Chemical Operator (Except Petroleum and Natural Gas)
8131-27	8131-27	Operator, Coverter Chemical Processes (Except Petroleum and Natural Gas)
8131-28	8131-28	Evaporator Operator
8131-29	8131-29	Operator, Still Batch (Chemical Processes Except Petroleum and Natural Gas)
8131-30	8131-30	Operator, Still Chemical Processes
8131-31	8131-31	Operator, Still Continuous (Chemical Processes Except Petroleum and Natural Gas)
8131-32	8131-32	Operator, Still Turpentine
8131-33	8131-33	Kiln-Operator, Charcoal
8131-34	8131-34	Sulphur Burner
8131-35	8131-35	Foam Maker, Chemical
8131-36	8131-36	Yarn Maker, Synthetic
8131-37	8131-37	Reactor-Convertor (Chemical Processes)
8131-38	8131-38	Enameller, Chemical
8131-39	8131-39	Treat Operator, Radioactive Waste
8131-40	8131-40	Machine Operator, Detergent Production
8131-41	8131-41	Machine Operator, Coke Production
8131-42	8131-42	Machine Operator, Mosquito Coil Production
8131-43	8131-43	Machine Operator, Pharmaceutical Products
8131-44	8131-44	Machine Operator, Toiletry Products

MASCO 2020	MASCO 2013	JOB TITLE
8131-45	8131-45	Machine Operator, Washing Chemical and Related Material
8131-46	8131-46	Machine Operator, Explosives Production
8131-47	8131-47	Machine Operator, Fireworks Production
8131-48	8131-48	Machine Operator, Halogen Gas Production
8131-49	8131-49	Machine Operator, Hydrogen Gas Production
8131-50	8131-50	Machine Operator, Chlorine Gas Production
8131-51	8131-51	Machine Operator, Candle Production
8131-52	8131-52	Machine Operator, Linoleum Production
8131-53	8131-53	Machine Operator, Match Production
8131-54	8131-54	Machine Operator, Pencil Production
8131-55	8131-55	Machine Operator, Lead Production
8131-56	8131-56	Machine Operator, Ammunition Products
8131-57	New	Machine Operator,Soap
8132		**PHOTOGRAPHIC PRODUCTS MACHINE OPERATORS**
8132-01	8132-01	General Assistant, Photographic
8132-02	8132-02	Machine Operator, Photographic Printing
8132-03	8132-03	Machine Operator, Photographic Developing
8132-04	8132-04	Machine Operator, Scanning and Filming
8132-05	8132-05	Machine Operator, Film Processing Machine
8132-06	8132-06	Machine Operator, Photograph Enlarging
8132-07	8132-07	Machine Operator, Photographic Film Production
8132-08	8132-08	Machine Operator, Film Paper Production
8132-09	8132-09	Machine Operator, Photographic Plate Production
8132-10	8132-10	Machine Operator, Photographic Products
8132-11	8132-11	Operator, Audio-Visual Aide
8132-12	8132-12	Operator, Recording Equipment, Sound and Image
8132-13	8132-13	Operator, Camera Television
8132-14	8132-14	Operator, Camera Motion Picture
8132-15	8132-15	Operator, Film-Recorder
8132-16	8132-16	Operator, Video Tape-Recorder
8132-17	8132-17	Operator, Studio Equipment Radio and Television
8132-18	8132-18	Operator, Telecine
8132-19	8132-19	Photo Finisher
8132-20	8132-20	Operator, Photographic
8132-21	8132-21	Operator, Darkroom
8132-22	8132-22	Photographic Processor
8132-23	8132-23	Photographic Film Printer
8132-24	8132-24	Developing Machine Operator - Photography
8132-25	8132-25	Machine Operator, Printing/Photography (Colour)
8132-26	8132-26	Film/Colour Developer
8132-27	8132-27	Photograph Enlarger
8132-28	8132-28	Photograph Printer
8141		**RUBBER PRODUCTS MACHINE OPERATORS**
8141-01	8141-01	Machine Operator, Milling Rubber
8141-02	8141-02	Machine Operator, Extruding Rubber
8141-03	8141-03	Press-Operator, Moulding Rubber
8141-04	8141-04	Machine Operator, Calender Rubber
8141-05	8141-05	Machine Operator, Cutting Rubber
8141-06	8141-06	Machine Operator, Tyre Production
8141-07	8141-07	Maker, Tyre
8141-08	8141-08	Machine Operator, Rubber Stamp Production
8141-09	8141-09	Machine Operator, Rubber Products
8141-10	8141-10	Maker, Air-Bag
8141-11	8141-11	Maker, Rubber Foam
8141-12	8141-12	Maker, Hose
8141-13	8141-13	Latex Foam Machine Operator
8141-14	8141-14	Moulder, Rubber

MASCO 2020	MASCO 2013	JOB TITLE
8141-15	8141-15	Mill, Rubber
8141-16	8141-16	Rubber Coagulator
8141-17	8141-17	Sheet Rubber Maker
8141-18	8141-18	Attendant, Smokehouse Rubber
8141-19	8141-19	Rubber Sheet Clipper and Sorter
8141-20	8141-20	Cleaner, Latex Tank
8141-21	8141-21	Worker, Heavecrumb Process
8141-22	8141-22	Machine Operator, Rubber Laminating
8141-23	New	Tyre Retreader
8142		**PLASTICS PRODUCTS MACHINE OPERATORS**
8142-01	8142-01	Machine Operator,Plastics Mixing
8142-02	8142-02	Press-Machine Operator, Plastics Laminating
8142-03	8142-03	Machine Operator, Plastics Extruding
8142-04	8142-04	Machine Operator, Plastics Compression Moulding
8142-05	8142-05	Machine Operator, Vacuum Plastic-Forming
8142-06	8142-06	Machine Operator, Plastics Tableting
8142-07	8142-07	Machine Operator, Plastics Embossing
8142-08	8142-08	Machine Operator, Plastic Production
8142-09	8142-09	Machine Operator, Plastic Product
8142-10	8142-10	Machine Operator, Plastic Straw Production
8142-11	8142-11	Moulder, Plastic
8142-12	8142-12	Machine Operator, Plastic Cable
8143		**PAPER PRODUCTS MACHINE OPERATORS**
8143-01	8143-01	Machine Operator, Carton and Paper Box Production
8143-02	8143-02	Machine Operator, Paper Products
8143-03	8143-03	Machine Operator, Cellophane Bag Production
8143-04	8143-04	Machine Operator, Envelope Production
8143-05	8143-05	Machine Operator, Joss Paper Production
8143-06	8143-06	Machine Operator, Cardboard Presser
8143-07	8143-07	Machine Operator, Cardboard Products
8143-08	8143-08	Papier Mache Moulder
8143-09	8143-09	Machine Operator, Paper Bag Production
8143-10	8171-08	Machine Operator, Cardboard Production
8143-11	8171-11	Machine Operator, Coating
8151		**FIBRE PREPARING, SPINNING AND WINDING MACHINE OPERATORS**
8151-01	8151-01	Machine Operator, Thread and Yarn Twisting
8151-02	8151-02	Thread and Yarn Winder
8151-03	8151-03	Thread and Yarn Spin Worker
8151-04	8151-04	Silk Reeler
8151-05	8151-05	Machine Operator, Cotton-Mixing
8151-06	8151-06	Machine Operator, Fibre Preparing
8151-07	8151-07	Machine Operator, Rope-Laying
8151-08	8151-08	Machine Operator, Braid Production
8152		**WEAVING AND KNITTING MACHINE OPERATORS**
8152-01	8152-01	Machine Operator, Warping Beam (Textile Weaving)
8152-02	8152-02	Machine Operator, Weaving
8152-03	8152-03	Machine Operator, Carpet Weaving
8152-04	8152-04	Machine Operator, Knitting
8152-05	8152-05	Machine Operator, Net Production
8152-06	8152-06	Wrinkle Machine Operator, Textile
8152-07	8152-07	Machine Operator, Textile Size
8152-08	8152-08	Assembler, Weaving Machine
8152-09	8152-09	Jacquard Card Cutter
8152-10	8152-10	Machine Operator, Lace Production
8152-11	8152-11	Machine Operator, Fabric Weaving

MASCO 2020	MASCO 2013	JOB TITLE
8152-12	New	Fabric Repairer
8152-13	New	Embroiderer, Machine
8153		**SEWING MACHINE OPERATORS**
8153-01	8153-01	Sewing Machine Operator
8153-02	8153-02	Sewing Machine Operator, Leather
8153-03	8153-03	Sewing Machine Operator, Crochet
8153-04	8153-04	Sewing Machine Operator, Embroider
8153-05	8153-05	Machine Operator, Fabric Repairer
8154		**BLEACHING, DYEING AND FABRICS CLEANING MACHINE OPERATORS**
8154-01	8154-01	Machine Operator, Textile Bleaching
8154-02	8154-02	Machine Operator, Dyeing
8154-03	8154-03	Machine Operator, Starch
8154-04	8154-04	Machine Operator, Washing
8154-05	8154-05	Machine Operator, Textile Dyeing
8154-06	8154-06	Machine Operator, Dry-Cleaning
8154-07	8154-07	Operator, Calendar Textile
8154-08	8154-08	Machine Operator, Textile Shrinking
8155		**FUR AND LEATHER PREPARING MACHINE OPERATORS**
8155-01	8155-01	Machine Operator, Hide Processing
8155-02	8155-02	Machine Operator, Hide Flesing
8155-03	8155-03	Machine Operator, Hide Dehairing
8155-04	8155-04	Machine Operator, Tanning
8155-05	8155-05	Machine Operator, Leather Cutting
8155-06	New	Machine Operator, Staining Leather
8156		**SHOEMAKING AND RELATED MACHINE OPERATORS**
8156-01	8156-01	Machine Operator, Footwear Production
8156-02	8156-02	Machine Operator, Orthopaedic Footwear Production
8156-03	8156-03	Machine Operator, Sports Footwear Production
8156-04	8156-04	Machine Operator, Safety Footwear Production
8156-05	8156-05	Machine Operator, Footwear Production for Special/Disabled Person
8156-06	8156-06	Machine Operator, Baggage Production
8156-07	8156-07	Machine Operator, Handbag Production
8156-08	8156-08	Machine Operator, Belt Production
8156-09	8156-09	Machine Operator, Harness
8157		**LAUNDRY MACHINE OPERATORS**
8157-01	8157-01	Machine Operator, Textile Fibres Dyeing
8157-02	8157-02	Machine Operator, Laundering
8157-03	8157-03	Machine Operator, Laundry Pressing
8159		**TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS NOT ELESEWHERE CLASSIFIED**
8159-01	8159-01	Machine Operator, Garments Cutting
8159-02	8159-02	Machine Cutter, Leather Garment
8159-03	8159-03	Machine Operator, Textile Cutting
8159-04	8159-04	Machine Operator, Hat Making
8159-05	8159-05	Machine Operator, Mattress Production
8159-06	8159-06	Machine Operator, Leather Pattern-Making
8159-07	8159-07	Machine Operator, Textile Pattern-Making
8159-08	8159-08	Machine Operator, Folding Cloth
8161		**FOOD AND RELATED PRODUCTS MACHINE OPERATORS**
8161-01	8161-01	Machine Operator, Meat Processing
8161-02	8161-02	Machine Operator, Fish Processing
8161-03	8161-03	Machine Operator, Food Processing

MASCO 2020	MASCO 2013	JOB TITLE
8161-04	8161-04	Machine Operator, Slaughtering
8161-05	New	Machine Operator, Seafood Production
8161-06	8161-06	Machine Operator, Fish Food Production
8161-07	8161-07	Machine Operator, Sausage Production
8161-08	8161-08	Machine Operator, Meat Canning
8161-09	8161-09	Machine Operator, Fish Canning
8161-10	8161-10	Attendant, Dairy Products Churning
8161-11	8161-11	Machine Operator, Dairy Product Processing
8161-12	8161-12	Machine Operator, Ice-Cream Production
8161-13	8161-13	Machine Operator, Milk Powder Production
8161-14	8161-14	Machine Operator, Dairy Products Churning
8161-15	8161-15	Machine Operator, Butter Products
8161-16	8161-16	Vacuum Pan Operator, Condensed Milk
8161-17	8161-17	Operator,Dairy Products Sterilizing
8161-18	8161-18	Cream Separator, Dairy
8161-19	8161-19	Attendant, Foodgrain Milling
8161-20	8161-20	Machine Operator, Mustard Seed Milling
8161-21	8161-21	Milling Assistant
8161-22	8161-22	Mixer, Spice
8161-23	8161-23	Blender, Flour
8161-24	8161-24	Miller, Grain
8161-25	8161-25	Miller, Oil Seed
8161-26	8161-26	Miller, Palm Oil
8161-27	8161-27	Grinder, Feed
8161-28	8161-28	Miller, Rice
8161-29	8161-29	Miller, Spice
8161-30	8161-30	Miller, Tapioca
8161-31	8161-31	Machine Operator, Wafer-Baking
8161-32	8161-32	Machine Operator, Yeast Making
8161-33	8161-33	Machine Operator, Cereal Production
8161-34	8161-34	Machine Operator, Chocolate Production
8161-35	8161-35	Machine Operator, Confectionery Production
8161-36	8161-36	Machine Operator, Noodle Production
8161-37	8161-37	Machine Operator, Pasta Production
8161-38	8161-38	Machine Operator, Pastry Production
8161-39	8161-39	Machine Operator, Bread Production
8161-40	8161-40	Machine Operator, Sago Production
8161-41	8161-41	Attendant, Sterilizing Oil Palm
8161-42	8161-42	Press-Operator, Fruit
8161-43	8161-43	Press-Operator, Edible Oils
8161-44	8161-44	Machine Operator, Nut Processing
8161-45	8161-45	Machine Operator, Margarine Processing
8161-46	8161-46	Machine Operator, Vegetable Processing
8161-47	8161-47	Machine Operator, Oil and Fat Refining
8161-48	8161-48	Machine Operator, Fruit Juice Production
8161-49	8161-49	Machine Operator, Vegetable Juice Production
8161-50	8161-50	Machine Operator, Sauce Production
8161-51	8161-51	Machine Operator, Food Canning
8161-52	8161-52	Operator, Margarine Plant
8161-53	8161-53	Operator, Fractionation Plant
8161-54	8161-54	Nut Roaster
8161-55	8161-55	Maker, Jem
8161-56	8161-56	Maker, Peanut Butter
8161-57	8161-57	Preserver, Sauces and Condiments
8161-58	8161-58	Dehydrator, Foodstuffs
8161-59	8161-59	Operator, Sugar Processing and Refining
8161-60	8161-60	Attendant, Pasteurizer (Brewery)
8161-61	8161-61	Attendant, Filtration
8161-62	8161-62	Machine Operator, Vinegar Making

MASCO 2020	MASCO 2013	JOB TITLE
8161-63	8161-63	Machine Operator, Soft-Drinks Production
8161-64	8161-64	Machine Operator, Spirit Brewing
8161-65	8161-65	Machine Operator, Liquor Production
8161-66	8161-66	Machine Operator, Spirit Distillig
8161-67	8161-67	Operator, Spirit Fermintation Equipment
8161-68	8161-68	Kiln-Operator, Spirit Matlting
8161-69	8161-69	Operator, Syrup-Mixing Plant
8161-70	8161-70	Operator, Germination Equipment Malting
8161-71	8161-71	Maker, Germination Equipment Malting
8161-72	8161-72	Carbonation Man (Malt Liquor)
8161-73	8161-73	Machine Operator, Brew
8161-74	8161-74	Machine Operator, Cigar Production
8161-75	8161-75	Machine Operator, Cigarette Production
8161-76	8161-76	Machine Operator, Tobacco Production
8161-77	8161-77	Machine Operator, Feed Mixing
8161-78	8161-78	Machine Operator, Cocoa-Bean Processing
8161-79	8161-79	Machine Operator, Coffee-Bean Processing
8161-80	8161-80	Machine Operator, Tea-Leaf Processing
8161-81	8161-81	Machine Operator, Soup Powder Production
8161-82	8161-82	Machine Operator, Bean Curd Production
8161-83	8161-83	Miller Operator
8161-84	8161-84	Flavour Mixer
8161-85	8161-85	Food Processing Operator
8161-86	8161-86	Food Grinder
8161-87	8161-87	Machine Operator, Coconut Peeler
8161-88	8161-88	Machine Operator, Potato Peeler
8161-89	8161-89	Machine Operator, Pineapple Peeler
8161-90	8161-90	Machine Operator, Nuts Peeler
8161-91	New	Food Production Operator
8161-92	New	Production Operator, Halal Food Manufacturing
8161-93	New	Production Operator, Halal Meat Processing
8161-94	New	Food Processing Worker
8171		**PULP AND PAPERMARKING PLANT OPERATORS**
8171-01	8171-01	Operator, Pulp Digester
8171-02	8171-02	Machine Operator, Chipping
8171-03	8171-03	Operator, Pulp Beater
8171-04	8171-04	Machine Operator, Wood Grinding
8171-05	8171-05	Operator, Bleach Machine
8171-06	8171-06	Cutter, Paper Pulp
8171-07	8171-07	Valve Operator, Paper Pulp
8171-08	8171-09	Machine Operator, Papermaking
8171-09	8171-10	Machine Operator, Cutting Paper
8171-10	8171-12	Operator, Paper-Pulp Plant
8171-11	8171-13	Valve Operator
8171-12	New	Paper Pulp Refinery Operator
8172		**WOOD PROCESSING PLANT OPERATORS**
8172-01	8172-01	Operator, Sawmill
8172-02	8172-02	Saw Operator
8172-03	8172-03	Saw Operator, Wet Timber
8172-04	8172-04	Saw Operator, Wood
8172-05	8172-05	Saw Operator Sawmill
8172-06	8172-06	Lathe-Operator, Cutting Veneer
8172-07	8172-07	Lathe Feeder, Veneer
8172-08	8172-08	Cutter, Veneer
8172-09	8172-09	Plywood Core Layer
8172-10	8172-10	Press-Operator, Plywood
8172-11	8172-11	Machine Operator, Seasoning Wood

MASCO 2020	MASCO 2013	JOB TITLE
8172-12	8172-12	Machine Operator, Incising (Wood Preserving)
8172-13	8172-13	Machine Operator, Treating Wood
8172-14	8172-14	Operator, Veneer Dryer
8172-15	8172-15	Operator, Auto-Clipper
8172-16	8172-16	Setter, Veneer
8172-17	8172-17	Operator, Tacky Timber
8173		**WOOD PRODUCTS MACHINE OPERATORS**
8173-01	7613-08	Lathe-Operator, Woodworking
8173-02	8173-02	Machinist, Wood
8173-03	8173-03	Lathe-Operator, Wood (Machine)
8173-04	8173-04	Machine Operator, Carving Wood
8173-05	8173-05	Machine Operator, Wood-Wool
8173-06	8173-06	Operator, Sander
8173-07	8173-07	Machine Operator, Furniture Production
8173-08	8173-08	Machine Operator, Wood Products
8181		**GLASS AND CERAMICS PLANT OPERATORS**
8181-01	8181-01	Machine Operator, Clay Mixing
8181-02	8181-02	Machine Operator, Glass Mixing
8181-03	8181-03	Furnace-Operator, Glass Production
8181-04	8181-04	Operator, Retort
8181-05	8181-05	Kiln-operator
8181-06	8181-06	Furnace-operator, Glass
8181-07	8181-07	Furnace-Operator, Annealing Glass
8181-08	8181-08	Kiln-Operator, Brick and Tile
8181-09	8181-09	Machine Operator, Ceramics Production
8181-10	8181-10	Machine Operator, Pottery and Porcelain
8181-11	8181-11	Machine Operator, Casting Pottery and Porcelain
8181-12	8181-12	Kiln-Operator, Pottery and Porcelain
8181-13	8181-13	Furnace-Operator, Glass Tempering
8181-14	8181-14	Temperer, Glass
8181-15	8181-15	Machine Operator, Glass Blowing
8181-16	8181-16	Machine Operator, Glass Etching
8181-17	8181-17	Machine Operator, Glass Engraving
8181-18	8181-18	Operator, Glass Sandblasting Equipment
8181-19	8181-19	Press-Operator, Clay Filtering
8181-20	8181-20	Machine Operator, Glass and Ceramics Kiln
8181-21	8181-21	Machine Operator, Abrasives Mixing
8181-22	8181-22	Machine Operator, Glass Pressing
8181-23	8181-23	Machine Operator, Brick-and-Tile Production
8181-24	8181-24	Machine Operator, Bottle Production
8181-25	8181-25	Machine Operator, Fibre Glass Production
8181-26	8181-26	Machine Operator, Glaze Production
8181-27	8181-27	Mixer, Clay
8181-28	8181-28	Clay Maker, Pottery
8181-29	8181-29	Maker, Fibreglass
8181-30	8181-30	Maker, Glaze
8181-31	8181-31	Maker, Glass Tube
8181-32	8181-32	Mixer, Glass
8181-33	8181-33	Polisher, Plate-Glass
8182		**STEAM ENGINE AND BOILER OPERATORS**
8182-01	8182-01	Plant Operator Grade H11
8182-02	8182-02	Boilerman
8182-03	8182-03	Boiler Operator, Ship
8182-04	8182-04	Fire Operator, Ship
8182-05	8182-05	Operator, Steam Boiler Plant
8182-06	8182-06	Operator, Steam Engine

MASCO 2020	MASCO 2013	JOB TITLE
8182-07	New	Fire Operator, Railway Engine
8182-08	New	Boilerman Grade K2
8182-09	New	Engine Driver
8183		**PACKING, BOTTLING AND LABELLING MACHINE OPERATORS**
8183-01	8183-01	Operator, Carton
8183-02	8183-02	Operator, Packing
8183-03	8183-03	Packer
8183-04	8183-04	Machine Operator, Labelling
8183-05	8183-05	Machine Operator, Packing
8183-06	8183-06	Machine Operator, Wrapping
8183-07	8183-07	Machine Operator, Press
8183-08	8183-08	Machine Operator, Sealing
8183-09	8183-09	Machine Operator, Capping
8183-10	8183-10	Machine Operator, Bottling
8183-11	8183-11	Machine Operator, Container Filling
8189		**STATIONARY PLANT AND MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED**
8189-01	8189-01	Machine Operator
8189-02	8189-02	Production Operator
8189-03	8189-03	Equipment & Machine Operator
8189-04	8189-04	Heavy Machinery Operator
8189-05	8189-05	Machine Operator, Bending
8189-06	8189-06	Machine Operator, Insulation
8189-07	8189-07	Machine Operator, Silicon Chip Production
8189-08	8189-08	Machine Operator, Cable and Rope Splicing
8189-09	8189-09	Operator, Road Marking Equipment
8189-10	8189-10	Line Leader
8189-11	8189-11	Production Operator, Electronic Product
8189-12	New	Machine Operator Grade K2
8189-13	New	Production Operator Grade K3
8189-14	New	Automated Assembly Line Operator
8211		**MECHANICAL MACHINERY ASSEMBLERS**
8211-01	8211-02	Assembler
8211-02	8211-03	Foreman
8211-03	8211-04	Assembler, Engine Marine
8211-04	8211-05	Assembler, Automobile
8211-05	8211-06	Assembler, Aircraft
8211-06	8211-07	Assembler, Refrigeration and Air-Conditioning Equipment
8211-07	8211-08	Assembler, Sewing Machine
8211-08	8211-09	Assembler, Mining Machinery
8211-09	8211-10	Assembler, Earth-Moving Equipment
8211-10	8211-11	Assembler, Machine Tool
8211-11	8211-12	Assembler, Printing Machinery
8211-12	8211-13	Assembler, Textile Machinery
8211-13	8211-14	Assembler, Industrial Machinery
8211-14	8211-15	Assembler, Wood Working Machinery
8211-15	8211-16	Assembler, Agricultural Machinery
8211-16	8211-17	Foreman, Mechanical
8211-17	8211-18	Fitter, Mechanical
8211-18	8211-19	Assembler, Motor-Cycle
8211-19	8211-20	Assembler, Gearbox
8211-20	8211-21	Assembler, Engine
8211-21	8211-22	Assembler, Vehicle
8211-22	8211-24	Assembler, Turbine
8212		**ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS**
8212-01	8212-02	Assembler, Electrical Equipment

MASCO 2020	MASCO 2013	JOB TITLE
8212-02	8212-03	Assembler, Electronic Equipment
8212-03	8212-04	Assembler, Semi-Conductor
8212-04	8212-05	Assembler, Battery
8212-05	8212-06	Assembler, Electric-sign
8212-06	8212-07	Assembler, Clock
8212-07	8212-08	Assembler, Watches
8212-08	8212-09	Assembler, Chronometer
8212-09	8212-10	Assembler, Office Machinery
8212-10	8212-11	Assembler, Hearing Aide
8212-11	8212-12	Assembler, Microelectronics Equipment
8212-12	8212-13	Assembler, Audio-Visual Equipment
8212-13	8212-14	Assembler, Precision Instrument
8212-14	8212-15	Assembler, Telephone
8212-15	8212-16	Assembler, Television
8212-16	New	,Operator, Electronic Production
8213		**LEATHER, METAL, RUBBER AND PLASTIC PRODUCTS ASSEMBLERS**
8213-01	8213-01	Assembler, Leather Products
8213-02	8213-02	Assembler, Metal Products
8213-03	8213-03	Assembler, Rubber Products
8213-04	8213-04	Assembler, Plastics Products
8213-05	8213-05	Assembler, Plastic Toy
8213-06	8213-06	Assembler, Umbrella
8219		**ASSEMBLERS NOT ELSEWHERE CLASSIFIED**
8219-01	8219-02	Assembler, Wood Products
8219-02	8219-03	Assembler, Composite Products
8219-03	8219-04	Assembler, Textile Products
8219-04	8219-05	Assembler, Bicycle
8219-05	8219-06	Assembler, Door
8219-06	8219-07	Assembler, Eyeglass Frame
8219-07	8219-08	Furniture finisher, wood
8219-08	8219-09	Assembler, Jewellery
8219-09	8219-10	Assembler, Knife
8219-10	8219-11	Luggage Finisher
8219-11	8219-12	Assembler, Paperboard Products
8219-12	8219-13	Assembler, Pen and Pencil
8219-13	8219-14	Assembler, Sun-blinds
8219-14	8219-15	Assembler, Thermos Bottle
8219-15	New	Garland Tier Assembler
8221		**MACHINE-TOOL SETTER-OPERATORS**
8221-01	8221-01	Operator, Metal Forming Machine
8221-02	8221-02	Operator, Watches Production Machine
8221-03	8221-03	Operator, Needle Production Machine
8221-04	8221-04	Operator, Cable Production Machine
8221-05	8221-05	Operator, Press-Machine Metal Except Forging
8221-06	8221-06	Operator, Press-Machine Punching Metal
8221-07	8221-07	Operator, Press-Machine Stamping Metal
8221-08	8221-08	Operator, Spinning Metal Machine
8221-09	8221-09	Operator, Bending Metal Machine
8221-10	8221-10	Operator, Reaming Metal Machine
8221-11	8221-11	Operator, Buffing Metal Machine
8221-12	8221-12	Operator, Coremaking Metal Machine
8221-13	8221-13	Operator, Moulding Metal Machine
8221-14	8221-14	Operator, Flamecutting Metal Machine
8221-15	8221-15	Operator, Cutting Metal Machine
8221-16	8221-16	Operator, Sharpening Metal Machine
8221-17	8221-17	Operator, Electric Wiring Machine

MASCO 2020	MASCO 2013	JOB TITLE
8221-18	8221-18	Operator, Forging Metal Machine
8221-19	8221-19	Operator, Referring Metal Machine
8221-20	8221-20	Operator, Toy Production Metal Machine
8221-21	8221-21	Operator, Wire Goods Production Machine
8221-22	8221-22	Operator, Boiler Production Machine
8221-23	8221-23	Operator, Clock Production Machine
8221-24	8221-24	Operator, Nut Production Metal Machine
8221-25	8221-25	Operator, Pipe Production Machine
8221-26	8221-26	Operator, Nail Production Machine
8221-27	8221-27	Operator, Jewellery Production Machine
8221-28	8221-28	Operator, Commutator Production Machine
8221-29	8221-29	Operator, Tool Production Machine
8221-30	8221-30	Operator, Rivet Production Machine
8221-31	8221-31	Operator, Zip Production Machine
8221-32	8221-32	Operator, Burnishing Metal Machine
8221-33	8221-33	Operator, Etching Metal Machine
8221-34	8221-34	Operator, Welding Metal Machine
8221-35	8221-35	Operator, Grinding Metal Machine
8221-36	8221-36	Operator, Engraving Metal Machine
8221-37	8221-37	Operator, Lapping Metal Machine
8221-38	8221-38	Operator, Core-Blowing Machine
8221-39	8221-39	Operator, Sports Equipment Metal Machine
8221-40	8221-40	Operator, Shearing Metal Machine
8221-41	8221-41	Operator, Riveting Machine
8221-42	8221-42	Operator, Metal Products Machine
8221-43	8221-43	Operator, Minting Metal Machine
8221-44	8221-44	Setter-Operator, Metalworking Machine
8221-45	8221-45	Coremaker, Foundry Machine
8221-46	8221-46	Roller and Engraver Metal-Printing Machine
8221-47	8221-47	Setter-operator
8221-48	8221-48	Setter-Operator, Lathe
8221-49	8221-49	Setter-Operator, Shaping Machine
8221-50	8221-50	Setter-Operator, Boring and Drilling Machine
8221-51	8221-51	Setter-Operator, Honing Machine
8221-52	8221-52	Setter-Operator, Milling Machine
8221-53	8221-53	Setter-Operator, Reaping Machine
8221-54	8221-54	Lathe Machine Operator
8221-55	New	Press-operator
8311		**LOCOMOTIVE ENGINE DRIVERS**
8311-01	8311-02	Locomotive Driver Grade A13
8311-02	8311-03	Railway Driver
8311-03	8311-04	Locomotive Driver
8311-04	8311-05	Operator, Commuter
8311-05	8311-06	Operator, Mono-Rail
8311-06	8311-07	Operator, Light Rail Transit
8311-07	8311-08	Engine Driver, Mine
8311-08	8311-09	Driver, Engine
8311-09	8311-10	Assistant Driver, Locomotive
8311-10	8311-02	Locomotive Driver Grade A19
8312		**RAILWAY BRAKE, SIGNAL AND SWITCH OPERATORS**
8312-01	8312-01	Braker, Railway
8312-02	8312-02	Signaller, Railway
8312-03	8312-03	Shunter, Railway
8312-04	8312-04	Yardman
8312-05	8312-05	Coupler, Railway Yard
8312-06	8312-06	Pointsman, Railway
8312-07	8312-07	Gateman, Railway

MASCO 2020	MASCO 2013	JOB TITLE
8321		**MOTORCYCLE RIDERS (DRIVERS)**
8321-01	8321-01	Motorcyclist
8321-02	8321-02	Despatch
8321-03	8321-03	Driver, Rickshaw
8321-04	8321-04	Driver, Motorized Tricycle
8322		**CAR, TAXI AND VAN DRIVERS**
8322-01	8322-01	Driver Grade H11
8322-02	8322-02	General Worker (Vehicle Driver) Grade 1
8322-03	8322-03	General Worker (Driver) Grade 1
8322-04	8322-04	Driver, Taxi
8322-05	8322-05	Chauffeur
8322-06	8322-06	Driver, Office Manager
8322-07	8322-07	Driver, Van
8322-08	8322-08	Car Jockey
8322-09	8322-09	Driver, Personal
8322-10	8322-10	Driver, Car
8322-11	New	Driver, Ambulans
8322-12	New	Chauffeur Grade K3
8322-13	New	E-Hailing Driver
8331		**BUS AND TRAM DRIVERS**
8331-01	8331-01	Driver, Bus
8331-02	8331-02	Driver, Tram
8331-03	8331-03	Motor Coach Driver
8331-04	8331-04	Assistant, Bus Driver
8332		**HEAVY TRUCK AND LORRY DRIVERS**
8332-01	8332-01	Driver, Lorry
8332-02	8332-02	Assistant Driver, Lorry
8332-03	8332-03	Driver, Fire-Engine
8332-04	8332-04	Driver, Dumper
8332-05	8332-05	Driver, Truck
8332-06	8332-06	Driver, Tanker
8332-07	8332-07	Driver, Tow Truck
8332-08	8332-08	Driver, Log
8332-09	8332-09	Driver, Concrete Mixer
8332-10	New	Driver/Operator, Uploader Machinery Grade H11
8332-11	New	Driver, Halal Logistics
8332-12	New	Heavy Machinery Driver
8332-13	New	Uploader Machinery Driver
8341		**MOBILE FARM AND FORESTRY PLANT OPERATORS**
8341-01	8341-01	Operator, Motorized Farm Equipment
8341-02	8341-02	Driver, Farm Tractor
8341-03	8341-03	Driver, Timber Carrier
8341-04	8341-04	Driver, Winch-Truck
8341-05	8341-05	Operator, Harvester
8342		**EARTH-MOVING AND RELATED PLANT OPERATORS**
8342-01	8342-01	Operator, Backhoe
8342-02	8342-02	Machine Operator, Trench Digging
8342-03	8342-03	Operator, Piling-Driver
8342-04	8342-04	Operator, Bulldozer
8342-05	8342-05	Driver, Ditch Backhoe
8342-06	8342-06	Operator, Road Making Machine
8342-07	8342-07	Operator, Road Roller
8342-08	8342-08	Operator, Grader and Scraper Road
8342-09	8342-09	Winchman, Dredging

MASCO 2020	MASCO 2013	JOB TITLE
8342-10	8342-10	Operator, Backhoe Dredger
8342-11	8342-11	Operator, Tunneling Machinery Construction
8342-12	8342-12	Operator, Drilling Plant
8342-13	8342-13	Operator, Tamping Machinery Construction
8342-14	8342-14	Operator, Dragline
8342-15	8342-15	Excavator Operator
8342-16	8342-16	Tunnel Concretor
8342-17	8342-17	Tunnel Fabricator
8342-18	8342-18	Tunnel Worker
8343		**CRANE, HOIST AND RELATED PLANT OPERATORS**
8343-01	8343-02	Operator, Crane
8343-02	8343-03	Operator, Hoist
8343-03	8343-04	Operator, Winch
8343-04	8343-05	Operator, Elevator Material Handling
8343-05	8343-06	Operator, Cable Car
8343-06	8343-07	Operator, Tower Crane
8343-07	8343-08	Operator, Mobile Crane
8343-08	New	Responsible Person (Tower Cranes, Freight Machines and Passengers)
8343-09	New	Responsible Person (Workplace and Gondola)
8344		**LIFTING TRUCK OPERATORS**
8344-01	8344-01	Operator, Truck Forklift
8344-02	8344-02	Operator, Truck Industrial
8344-03	8344-03	Operator, Truck Lifting
8344-04	8344-04	Forklift Driver
8351		**SHIPS DECK CREWS AND RELATED WORKERS**
8351-01	8351-01	Helmsman
8351-02	8351-02	Driver, boat
8351-03	8351-03	Rower, canoe
8351-04	8351-04	Ship Quatermaster
8351-05	8351-05	Deckhand (Ship, Barge and Boat)
8351-06	8351-06	Senior Sailor
8351-07	8351-07	Shipman
8351-08	8351-08	Sailor
8351-09	8351-09	Assistant, Shipping
8351-10	8351-10	Crew, Ship
8351-11	8351-11	Crew, Ferry
8351-12	8351-12	Lighterman
8351-13	8351-13	Ram Controller
8351-14	8351-14	Life-Boatman
8351-15	8351-15	Keeper, Light House
8351-16	8351-16	Boatswain
8351-17	8351-17	Able Seaman
8351-18	8351-18	Ordinary Seaman
8351-19	8351-19	Engine Oiler
8351-20	8351-20	Machine Wiper
8351-21	8351-21	Dive Boatman
8351-22	8351-22	Ferry Hand
8351-23	New	Seafearer
9		ELEMENTARY WORKERS
9111		**DOMESTIC CLEANERS AND HELPERS**
9111-01	9111-01	Amah
9111-02	9111-02	Domestic Servant
9111-03	9111-03	Housemaid
9111-04	9111-04	Helper, Domestic

MASCO 2020	MASCO 2013	JOB TITLE
9111-05	9111-05	Helper, Housekeeper
9111-06	9111-06	Cleaner, House
9111-07	9111-07	Laundress, Household
9111-08	9111-08	Cleaner
9111-09	9111-09	Char Worker, Domestic
9111-10	9111-10	Linen Housekeeping Assistant
9112		**CLEANERS AND HELPERS IN OFFICES, HOTEL AND OTHER ESTABLISHMENT**
9112-01	9112-01	Chambermaid
9112-02	9112-02	Cleaner, Hotel
9112-03	9112-03	Cleaner, Office
9112-04	9112-04	Laundress
9112-05	9112-05	Cleaner, Building
9112-06	9112-06	Housekeeping Worker, Public Area
9112-07	9112-07	Bellboy
9112-08	9112-08	Housekeeping and Catering Services Workers
9112-09	9112-09	Cleaner, Aircraft (Interior)
9112-10	9112-10	Cleaner, Vehicles (Interior)
9112-11	9112-11	Tea Lady
9112-12	New	Cleaning Worker
9121		**HAND LAUNDERERS AND IRONERS**
9121-01	9121-01	Worker, Laundry and Dry Cleaning
9121-02	9121-02	Ironers
9121-03	9121-03	Dry-Cleaner
9121-04	New	Operator, Washing
9121-05	New	Worker, Sundries
9122		**VEHICLE CLEANERS**
9122-01	9122-01	Cleaner, Vehicles
9122-02	9122-02	Washer, Vehicle (Hand)
9122-03	9122-03	Washer, Auto-polish
9122-04	9122-04	Worker, Auto-sanding
9123		**SURFACE AND WINDOW CLEANERS**
9123-01	9123-01	Cleaner, Window
9123-02	9123-02	Cleaner, Sliding Door
9123-03	9123-03	Cleaner, Surface
9129		**OTHER CLEANING WORKERS NOT ELSEWHERE CLASSIFIED**
9129-01	9129-01	Worker, Toiletries
9129-02	9129-02	Worker, Washing
9129-03	9129-03	Cleaner, Carpet
9129-04	9129-04	Cleaner, Swimming Pool
9129-05	9129-05	Cleaner, Graffiti
9129-06	New	Washer, Hand Manufacturing
9129-07	New	Cleaner, River
9211		**CROP FARM LABOURERS**
9211-01	New	Crop Farm Labourer
9211-02	9211-03	Crop Farm Labourer, Nuts
9211-03	9211-04	Crop Farm Labourer, Paddy
9211-04	9211-05	Crop Farm Labourer, Spice
9211-05	9211-06	Crop Farm Labourer, Vegetables
9211-06	9211-08	Crop Farm Labourer, Sugarcane
9211-07	9211-09	Crop Farm Labourer, Tobacco
9211-08	9211-10	Crop Farm Labourer, Tapioca
9211-09	9211-11	Worker, Manuring
9211-10	9211-12	Worker, Harvesting

MASCO 2020	MASCO 2013	JOB TITLE
9211-11	9211-13	Fruit Picker
9211-12	9211-14	Vegetable Picker
9211-13	9211-15	Crop Farm Labourer, Palm Tree
9211-14	9211-16	Rubber Tapper
9211-15	9211-17	Peeler, Coconut
9211-16	9211-18	Peeler, Potato
9211-17	9211-19	Peeler, Pineapple
9211-18	9211-20	Peeler, Nuts
9211-19	9211-21	Worker, Crop Carm Product
9211-20	9211-22	Coconut Tapper
9211-21	New	Labourer, Estate
9211-22	New	Palm Oil Harvester
9211-23	New	Fruit Peeler
9211-24	New	Onion Peeler
9211-25	New	Scalp Rubber Scale
9212		**LIVESTOCK FARM LABOURERS**
9212-01	9212-01	Livestock Farm Labourer
9212-02	9212-02	Livestock Farm Cleaner
9212-03	9212-03	Livestock Farm Labourer, Dairy
9212-04	9212-04	Livestock Farm Labourer, Poultry
9212-05	9212-05	Egg Collector
9212-06	9212-06	Egg Sorter
9212-07	New	Egg Cleaner
9213		**MIXED CROP AND LIVESTOCK FARM LABOURERS**
9213-01	9213-01	Farm Labourer
9213-02	New	Farm Hand
9213-03	New	Plantation Worker
9214		**GARDEN AND HORTICULTURAL LABOURERS**
9214-01	9214-01	Grass Cutter
9214-02	9214-02	Tree Cutter
9214-03	9214-03	Worker, Playground Maintenance
9214-04	9214-04	Worker, Golf Course Maintenance
9214-05	9214-05	Labourer, Landscape
9214-06	9214-06	Labourer, Garden
9214-07	9214-07	Labourer, Horticultural
9214-08	9214-08	Labourer, Nursery
9215		**FORESTRY LABOURERS**
9215-01	9215-01	Labourer, Forestry
9215-02	9215-02	Labourer, Hunting
9215-03	9215-03	Labourer, Trapping
9215-04	9215-04	Tree Feller
9215-05	9215-05	Tree Planter
9216		**FISHERY AND AQUACULTURE LABOURERS**
9216-01	9216-01	Fishery Labourer
9216-02	9216-02	Aquaculture Labourer
9216-03	9216-03	Ponds Worker, Shrimp
9216-04	9216-04	Cage Worker, Fish
9216-05	9216-05	Peeler, Anchovy
9216-06	9216-06	Worker, Salty Fish
9216-07	9216-07	Worker, Salty Egg
9216-08	9216-08	Worker, Fishery and Aquaculture Product
9219		**FISHERY AND AQUACULTURE LABOURERS NOT ELSEWHERE CLASSIFIED**
9219-01	9219-01	Labourer, Crocodile Cage

MASCO 2020	MASCO 2013	JOB TITLE
9219-02	9219-02	Labourer, Snake Cage
9311		**MINING AND QUARRYING LABOURERS**
9311-01	9311-01	Bucket Labourer
9311-02	9311-02	Labourer, Mining
9311-03	9311-03	Worker, Tin Mine
9311-04	9311-04	Dulang Washer
9311-05	9311-05	Labourer, Quarry
9311-06	9311-06	Labourer, Sanding
9311-07	9311-07	Worker, Stone
9312		**CIVIL ENGINEERING LABOURERS**
9312-01	9312-01	Labourer, Construction (Civil Engineering)
9312-02	9312-02	Labourer, Maintenance (Dam)
9312-03	9312-03	Worker, Site General
9312-04	9312-04	Formwork Construction Worker
9312-05	9312-05	Piling Worker
9312-06	9312-06	Labourer, Earthmoving
9312-07	9312-07	Trackman, Railway
9312-08	New	Construction Worker (Oil and Gas)
9313		**BUILDING CONSTRUCTION LABOURERS**
9313-01	9313-01	Hod Carrier
9313-02	9313-02	Labourer, Maintenance
9313-03	9313-03	Worker, Maintenance
9313-04	9313-04	Grave-Digger
9313-05	9313-05	Land Clearer
9313-06	9313-06	Handyman, Building Construction
9313-07	9313-07	Labourer, Demolition
9313-08	9313-08	Labourer, Construction (Building Work)
9321		**MANUFACTURING LABOURER**
9321-01	9321-01	Packer (Hand)
9321-02	9321-02	Labeller (Hand)
9321-03	9321-03	Wrapper (Hand)
9321-04	9329-01	Labourer, Manufacturing
9321-05	9329-02	Sorter
9321-06	9329-03	Winder, Coil Hand
9321-07	9329-04	Labourer, Assembling
9321-08	9329-06	Mixer Hand
9321-09	9329-07	Maker, Hand Carton and Paper Box
9321-10	9329-08	Smokehouse Stoker
9321-11	9329-09	Bottle Sorter
9321-12	9329-10	Factory Hand
9321-13	New	Raw Material Handler
9329		**MANUFACTURING LABOURES NOT ELSEWHERE CLASSIFIED**
9331		**HAND OR PEDAL VEHICLE DRIVERS**
9331-01	9331-01	Rickshaw Puller
9331-02	9331-02	Pedal Vehicle Driver
9332		**ANIMAL – DRAWN VEHICLES DRIVERS**
9332-01	9332-01	Driver, Animal-Drawn Vehicle Or Machinery
9332-02	9332-02	Driver, Bullock-Cart
9332-03	9332-03	Driver, Animal Train
9332-04	9332-04	Mahout
9332-05	9332-05	Driver, Animal-Drawn Machinery

MASCO 2020	MASCO 2013	JOB TITLE
9333		**FREIGHT WORKERS AND STORAGE LABOURERS**
9333-01	9333-01	Freight Worker
9333-02	9333-02	Docker
9333-03	9333-03	Worker, Shipyard
9333-04	9333-04	Stevedore
9333-05	9333-05	Handler, Cargo Freight Product
9333-06	9333-06	Loader, Railway and Road Vehicle
9333-07	9333-07	Loader, Aircraft
9333-08	9333-08	Loader, Boat (Liquid and Gases)
9333-09	9333-09	Porter, Warehouse
9333-10	9333-10	Handler, Material
9333-11	9333-11	Furniture Mover
9333-12	9333-12	Loader Worker
9333-13	9333-13	Attendant, Store
9333-14	9333-14	Operator, Store
9333-15	9333-15	Worker, Store
9333-16	9333-16	Worker, Warehouse
9333-17	New	Operator, Warehouse
9334		**SHELF FILLERS**
9334-01	9334-01	Shelf Filler
9334-02	9334-02	Stock Filler
9334-03	9334-03	Stock Handler
9334-04	9329-12	Stacker
9411		**FAST FOOD PREPARERS**
9411-01	9411-01	Fast Food Preparer
9411-02	9411-02	Fast Food Cook
9411-03	9411-03	Short Order Cook
9411-04	New	Restaurant Crew
9411-05	New	Sandwichsta
9412		**KITCHEN HELPERS**
9412-01	9412-01	Kitchen Helper
9412-02	9412-02	Hand Dish Washer
9412-03	9412-03	Kitchen Assistant
9412-04	9412-04	Kitchen Porter
9412-05	9412-05	Pantry Attendant
9412-06	New	Assistant Cook Grade K3
9412-07	New	Food Stall Assistant
9412-08	New	Food Preparation Assistant
9511		**STREET AND RELATED SERVICE WORKERS**
9511-01	New	Street Car Washer
9511-02	9511-03	Errand boy
9511-03	9511-05	Car Guard
9511-04	9511-06	Leaflet Distributor
9511-05	9511-07	Newspaper Distributor
9521		**STREET VENDORS (EXCLUDING FOOD)**
9521-01	9521-01	Newspaper Vendor
9521-02	9521-02	Pedlar
9521-03	9521-03	Hawker
9611		**GARBAGE COLLECTORS**
9611-01	9611-01	Worker, Garbage Disposal
9611-02	9611-02	Scrap Handler
9611-03	9611-03	Collector, Garbage
9611-04	9611-04	Collector, Refuse

MASCO 2020	MASCO 2013	JOB TITLE
9611-05	9611-05	Dustman/woman
9612		**REFUSE AND WASTE RECYCLING SORTERS**
9612-01	9612-01	Rubbish Sorter
9612-02	9612-02	Recycling Worker
9612-03	9612-03	Scrap Paper Merchant
9612-04	9612-04	Refuse Sorter
9612-05	9612-05	Waste Picker
9612-06	9612-06	Collector, Old Metal
9612-07	9612-07	Collector, Old Newspaper
9612-08	9612-08	Collector, Scrap
9612-09	New	Recycler
9613		**SWEEPERS AND RELATED LABOURERS**
9613-01	9613-01	Sweeper, Road
9613-02	9613-02	Sweeper, Park
9613-03	9613-03	Sweeper, Floor
9613-04	9613-04	Labourer, Odd-Jobbing
9613-05	9613-05	Cleaning Worker, Blowing Machine
9613-06	9613-06	Cleaning Worker, Vacuming Machine
9613-07	9613-07	Sweeper, Street
9621		**MESSENGERS, PACKAGE DELIVERERS AND LUGGAGE PORTERS**
9621-01	9621-03	General Assistant (Notice Boy) Grade 1
9621-02	9621-04	Notice Boy Grade N11
9621-03	9621-05	General Assistant (Support) Grade 1
9621-04	9621-07	Messenger, Courier
9621-05	9621-08	Porter, Luggage
9621-06	9621-09	Office Boy
9621-07	9621-10	Document Searcher
9621-08	9621-11	Newspaper Deliverer
9621-09	9621-12	Caddie
9621-10	9621-13	Delivery Assistant
9621-11	9621-14	Bill Poster
9621-12	9621-15	Document Courier
9621-13	9621-16	Goods Carrier
9621-14	9621-17	Room Boy
9621-15	9621-18	Porter
9621-16	9621-19	Messenger
9621-17	9621-20	Post-runner
9621-18	9621-21	Trolley Boy
9621-19	New	General Assistant
9621-20	New	Part Assistant
9622		**ODD JOB PERSONS**
9622-01	9622-03	General Worker (General Services) Grade 1
9622-02	9622-04	Odd-Job Person
9622-03	New	General Worker
9622-04	9622-06	Handyperson
9622-05	New	General Worker Grade K3
9622-06	New	Production Crew
9622-07	New	Production Assistant
9622-08	New	Maintenance Assistant
9622-09	New	Public Asssistant Grade H11
9623		**METER READERS AND VENDING-MACHINE COLLECTORS**
9623-01	9623-01	Meter Reader
9623-02	9623-02	Collector, Vending-machine

MASCO 2020	MASCO 2013	JOB TITLE
9624		**WATER AND FIREWOOD COLLECTORS**
9624-01	9624-01	Firewood Collector
9624-02	9624-02	Water Carrier
9625		**ATTENDANTS**
9625-01	9625-02	Attendant
9625-02	9625-03	Attendant, Laboratory
9625-03	9625-04	Attendant, Hospital
9625-04	9625-05	Attendant, Veterinary
9625-05	9625-06	Attendant, Parking
9625-06	9625-07	Attendant, Lift
9625-07	9625-08	Attendant, Recreational Amusement Park
9625-08	9625-09	Attendant, Funfair
9625-09	9625-10	Attendant, Room
9625-10	9625-11	Attendant, Restroom
9625-11	9625-12	Attendant, Laundry
9625-12	9625-13	Attendant, Lavatory
9625-13	9625-14	Attendant, Bowling-Alley
9625-14	9625-15	Attendant, Snooker
9625-15	9625-16	Attendant, Sports
9625-16	9625-17	Attendant, Crane
9625-17	9625-18	Attendant, Transport
9625-18	9625-19	Attendant, Ramp
9625-19	9625-20	Attendant, Jetty
9625-20	9625-21	Attendant, Public Area
9625-21	9625-22	Attendant, Machine
9625-22	9625-23	Attendant, Maintenance
9625-23	9625-24	Attendant, Fairground
9625-24	9625-25	Collector, Ticket Usher
9625-25	New	Attendant, Landscape
9629		**ELEMENTARY WORKERS NOT ELSEWHERE CLASSIFIED**
9629-01	New	Labourer
9629-02	9629-03	Inflatable Worker
0	**0**	**ARMED FORCES OCCUPATIONS**
0111		**PROFESSIONAL DUTY OFFICERS (MA)**
0111-01	2211-05	Medical Officer
0111-02	0111-02	Dental Officer
0111-03	0111-03	Pharmacy Officer
0121		**GENERAL DUTY OFFICERS (MA)**
0121-01	0121-01	Royal Malay Regiment Officer
0121-02	0121-02	Royal Ranger Regiment Officer
0121-03	0121-03	Royal Armoured Corps Officer
0121-04	0121-04	Royal Signals Regiment Officer
0121-05	0121-05	Royal Engineer Regiment Officer
0121-06	0121-06	Royal Artillery Regiment Officer
0121-07	0121-07	General Services Corps Officer
0121-08	0121-08	Royal Medical Corps Officer
0121-09	0121-09	Royal Military Police Corps Officer
0121-10	0121-10	Royal Intelligence Corps Officer
0121-11	0121-11	Royal Logistics Corps Officer
0121-12	0121-12	Royal Ordnance Corps Officer
0121-13	0121-13	Royal Electrical and Mechanical Engineer Corps Officer
0121-14	0121-14	Armed Forces Religious Corps Officer
0121-15	0121-15	Territorial Army Regiment Officer
0121-16	0121-16	Border Regiment Officer

MASCO 2020	MASCO 2013	JOB TITLE
0131		**PERSONNEL OF OTHER RANKS (MA)**
0131-01	New	Member of the Infantry
0131-02	New	Member of the Infantry Assistance Weapon
0131-03	New	Member of Transportation Management
0131-04	New	Krew Mekanize
0131-05	New	Military Clerk
0131-06	New	Member of Infantry
0131-07	0321-17	Physical Trainer
0131-08	New	Serang Pioneer
0131-09	New	Team Crew
0131-10	0221-14	Member of the Brass Band
0131-11	New	Member of the Special Movement
0131-12	New	Armor Crew
0131-13	New	Communication and Information Technician
0131-14	New	Communication and Information System
0131-15	New	Spokesman Kombat Semboyan
0131-16	New	Scratches
0131-17	2165-08	Surveyor
0131-18	7112-01	Bricklayers
0131-19	New	Pipe Worker
0131-20	New	Metal Worker
0131-21	New	Wood Worker and Joiner
0131-22	New	Painters and Decorators
0131-23	New	Plant Driver
0131-24	New	Fitter Combustion and Pam
0131-25	New	Plant Supervisor
0131-26	7411-04	Electrician
0131-27	New	Destruction Technician
0131-28	New	Gunners
0131-29	New	Ballistic Data Processing
0131-30	New	Artillery Surveyor
0131-31	New	Artillery Detectors
0131-32	New	Members of the Shot Control
0131-33	New	Member of the Air Defense Artillery
0131-34	New	Radar Operator
0131-35	New	Military Accounting Clerk
0131-36	New	Military Accounting System
0131-37	New	Educational Assistant
0131-38	New	Combat Reporters
0131-39	2241-01	Paramedics
0131-40	New	Assistant Medical Officer
0131-41	New	Trained Nurse
0131-42	New	Assistant Environmental Health Officer
0131-43	New	Medical Laboratory Technologist
0131-44	New	Radiographer
0131-45	New	Assistant Pharmaceutical Officer
0131-46	New	Dental Technologist
0131-47	3251-04	Dental Nurse
0131-48	New	Physiotherapist Medical
0131-49	New	Medical Therapist, Occupational
0131-50	New	Assistant Veterinary Officer Grade G29
0131-51	New	Military Police Member
0131-52	New	Security and Response Members
0131-53	New	The Nerves of the Nervous War
0131-54	New	Imagery Intelligence
0131-55	New	Strategic Intelligence
0131-56	New	Operation Human Intelligence
0131-57	New	Special Intelligence Operations
0131-58	New	Army Chef

MASCO 2020	MASCO 2013	JOB TITLE
0131-59	0321-18	Logistic Technician
0131-60	New	Bullet Technician
0131-61	New	Printing Technician
0131-62	New	Automotive Engineering Technician
0131-63	3114-02	Electronic Engineering Technician
0131-64	New	Weapons Engineering Technician
0131-65	New	Manufacturing Engineering Technician
0131-66	New	Return Engineering Engineer
0131-67	New	Avionic Engineering Technician
0131-68	New	Aeromechanical Engineering Technician
0131-69	New	Aircraft Engineering Engineer
0131-70	New	Military Islamic Affairs Adviser
0211		**GENERAL DUTY OFFICERS (RMN)**
0211-01	0211-01	Executive Officer
0211-02	0211-02	Technical Officer
0211-03	0211-03	Supply Officer
0221		**PERSONNEL OF OTHER RANKS (RMN)**
0221-01	0221-01	Member of Surface Warfare
0221-02	New	Member of Submarine Warfare (Weapon)
0221-03	0221-03	Member of Submarine Warfare (Control)
0221-04	0221-04	Member of Warfare Tactical Plotters
0221-05	0221-05	Member of Naval Provost
0221-06	New	Diver
0221-07	0221-07	Member of Hydrography
0221-08	0221-08	Member of Communications
0221-09	0221-09	Member of Physical Trainers
0221-10	0221-10	Member of Administration and Finance
0221-11	0221-11	Member of Logistics Technicians
0221-12	0221-12	Member of Navy Cooks
0221-13	0221-13	Member of Officers' Mess Personnel
0221-14	0221-14	Member of the Brass Band
0221-15	0221-15	Member of Propulsion Marine Technicians
0221-16	New	Member of the Srimala Marine Technician
0221-17	0221-16	Member of Power and Ordinance Electrical Technicians
0221-18	New	Member of Electrical Radio and Radar Technician
0311		**GENERAL DUTY OFFICERS (RMAF)**
0311-01	0311-01	General Duty Pilot Branch Officer
0311-02	0311-02	Navigation Branch Officer
0311-03	0311-03	Engineering Branch Officer
0311-04	0311-04	Secretariat Branch Officer
0311-05	0311-05	Material Branch Officer
0311-06	0311-06	Air Traffic Control Branch Officer
0311-07	0311-07	Air Defence Control Branch Officer
0311-08	0311-08	Fire Brigade Branch Officer
0311-09	0311-09	Flight Engineer Branch Officer
0311-10	0311-10	Weapon Sensor Branch Officer
0321		**PERSONNEL OF OTHER RANKS (RMAF)**
0321-01	New	Aeromech Technician
0321-02	New	Avionics Technician
0321-03	New	Aerospace Support Engineering Technician
0321-04	New	Aviation Information Technology Technician
0321-05	0321-02	Airframe Technician
0321-06	0321-07	Engine Technician
0321-07	0321-06	Electrical Technician
0321-08	0321-04	Instrument Technician

MASCO 2020	MASCO 2013	JOB TITLE
0321-09	New	Electron Technician
0321-10	0321-05	Weapon Technician
0321-11	New	Aviation Support Equipment Technician
0321-12	New	Statistical Assistant
0321-13	New	Surface and Safety Technicians
0321-14	New	Woodworker Technician
0321-15	New	Air Quartermaster
0321-16	0321-01	Stewardess
0321-17	New	Air Surveillance Technician
0321-18	0321-11	Air Traffic Control Assistant
0321-19	New	Fire Brigade
0321-20	New	Catalog (Meterial)
0321-21	0321-21	Driver
0321-22	0321-13	Administrative Assistant
0321-23	New	Provost
0321-24	0321-17	Physical Trainer
0321-25	0221-14	Brass Band

ALPHABETICAL INDEX

MASCO 2020	MASCO 2013	JOB TITLE
		A
2251-06	2251-07	Abattoir Veterinarian
8351-17	8351-17	Able Seaman
2522-17	2522-22	Access Administration Analyst (Information Technology)
2531-13	New	Access Control Specialist
7319-04	New	Accessories Maker
1411-13	1411-14	Accommodation Manager
4311-10	4311-10	Account and Promotion Clerk
4311-07	4311-07	Account Clerk
2411-17	2411-21	Account Executive
4311-33	New	Account Keeper Grade 14
1211-03	1211-02	Account Manager
2411-42	New	Account Officer
2411-22	2411-27	Account Payable Executive
2411-21	2411-26	Account Receivable Executive
3313-02	3313-06	Account Supervisor
3313-19	New	Account Work Officer Grade 19
2411-06	2411-10	Accountant
1112-10	1112-10	Accountant General
2411-46	New	Accountant Grade 23
2411-01	2411-01	Accountant Grade WA41
2411-43	New	Accountant Grade WA47
2411-44	New	Accountant Grade WA51
2411-45	New	Accountant Grade WA53
4311-25	3313-01	Accounting Assistant Grade W19
4311-08	4311-08	Accounting Payable Clerk
4311-09	4311-09	Accounting Receivable Clerk
3313-17	New	Accounting Technician
4311-30	New	Accounts Assistant
3134-05	3134-05	Acetylene Plant Operator
8131-23	8131-23	Acid Plant Operator
2153-30	New	Acoustic Engineer
2847-01	2847-01	Acrobat
2845-01	2845-01	Actor
4312-33	3314-03	Actuarial Assistant
4312-16	4312-17	Actuarial Clerk
1211-23	New	Actuarial Valuation Manager
3255-03	3255-03	Acupressure Therapist
2231-03	2231-03	Acupuncturist
2825-05	2825-06	Addictions Counsellor
2842-04	2842-04	Adiguru - Music
2842-05	2842-05	Adiguru - Shadow Puppet Theatre
2411-36	New	Adjuster
7613-01	7613-01	Adjuster, Wood Machine
4312-21	4312-22	Adjustment Clerk
2425-11	2425-18	Administration Executive Officer
4311-13	4311-14	Administrative and Accounting Clerk
2422-01	2422-01	Administrative and Diplomatic Officer Grade M41
4111-17	4111-18	Administrative Assistant
0321-22	0321-13	Administrative Assistant
4311-01	4311-01	Administrative Assistant (Accounting) Grade 21
4419-15	3712-01	Administrative Assistant (Appraiser) Grade 21
4311-27	3313-03	Administrative Assistant (Audit) Grade 21
4111-04	4111-04	Administrative Assistant (Clerk) Grade 21
3511-03	3511-03	Administrative Assistant (Computer Technician) Grade 21
4225-01	4225-01	Administrative Assistant (Customer Services) Grade 21
4111-03	4111-03	Administrative Assistant (Designer) Grade 21
4111-05	4111-05	Administrative Assistant (Engineering) Grade 21

MASCO 2020	MASCO 2013	JOB TITLE
4312-01	4312-01	Administrative Assistant (Finance) Grade W19
4419-03	3411-01	Administrative Assistant (Legal) Grade L19
4411-01	4411-01	Administrative Assistant (Library) Grade 21
3511-02	3511-02	Administrative Assistant (Operator Computer) Grade 21
3631-01	3631-02	Administrative Assistant (Photographer) Grade 21
4121-06	4121-07	Administrative Assistant (Secretarial)
4121-03	4121-04	Administrative Assistant (Secretarial) Grade 21
5414-03	5414-03	Administrative Assistant (Security) Grade 21
4111-01	4111-01	Administrative Assistant(Clerical/Operation) Grade N19
4311-31	New	Administrative Assistant, Auditing
3511-22	New	Administrative Assistant, Computer Technician
4111-19	New	Administrative Assistant, Designer
4111-22	New	Administrative Assistant, Halal Industry
4111-11	4111-11	Administrative Clerk
4111-21	New	Administrative Clerk Grade K1
2425-08	2425-15	Administrative Executive
1215-01	1215-01	Administrative Manager
2425-10	2425-17	Administrative Officer
2412-18	New	Administrative Officer (Investment) Grade N48
2425-18	New	Administrative Officer Grade 23
2425-01	2425-01	Administrative Officer Grade N41
3343-17	3343-17	Administrative Secretary
1215-02	1215-02	Administrative Services Manager
3341-05	3341-05	Administrative Supervisor
1121-26	1121-25	Administrator
1612-14	New	Administrator, Health Facility
2521-06	2521-06	Administrator, PDE (Electronic Data Processing)
2241-02	2241-02	Advanced Care Paramedic
2431-01	2431-01	Advertising Executive Account
3632-07	3632-07	Advertising Illustrator
1222-01	1222-01	Advertising Manager
5241-02	5241-02	Advertising Model
2611-16	2611-27	Advocate
3631-07	3631-08	Aerial Photographer
2165-16	2165-17	Aerial Surveyor
3622-05	3622-09	Aerobics Coach
3623-09	3623-09	Aerobics Instructor
2111-03	2111-03	Aerodynamicist
3111-22	3111-24	Aerological Technician
2144-33	2144-36	Aero-Material Component Engineer
0321-01	New	Aeromech Technician
0131-68	New	Aeromechanical Engineering Technician
3115-12	3115-14	Aeronautical (Mechanical) and Equipment Engineering Assistant
2173-11	2171-10	Aeronautical Engineer
3115-02	3115-04	Aeronautical Engineering Technician
3115-26	3115-29	Aeronautics Engineering Technician
3115-01	3115-03	Aerospace (Mechanical) Engineering Technician
2144-59	New	Aerospace Engineer
3522-01	3522-01	Aerospace Engineering Technician (Telecommunications)
0321-03	New	Aerospace Support Engineering Technician
5142-06	5142-06	Aesthetician
3322-02	3322-02	After Sales Service Adviser
1613-06	New	Aged Care Centre Manager
1613-04	New	Aged Care Facility Manager
1613-02	1613-02	Aged Care Home Director
1613-07	New	Aged Care Hostel Manager
1613-01	1613-01	Aged Care Services Manager

MASCO 2020	MASCO 2013	JOB TITLE
2132-08	2132-12	Agricultural Adviser
3142-15	New	Agricultural Assistant
2144-26	2144-29	Agricultural Engineer
2132-13	New	Agricultural Executive
3719-07	3719-09	Agricultural Inspector
1311-06	1311-06	Agricultural Manager
2132-05	2132-09	Agricultural Officer
2132-03	2132-03	Agricultural Officer Grade G41
2133-04	2133-04	Agricultural Scientist
2426-05	2426-08	Agriculture Biotech Researcher
2426-03	2426-06	Agro-Based Biotech Food Researcher
3119-45	3139-09	Agro-Based Biotech Research Technician
2112-08	2112-09	Agrometeorologist
2133-02	2133-02	Agronomist
3142-01	3142-04	Agronomy Technician
2174-04	2179-04	Air Cargo Officer
0311-07	0311-07	Air Defence Control Branch Officer
2143-03	2143-03	Air Pollution Control Engineer
0321-15	New	Air Quartermaster
0321-17	New	Air Surveillance Technician
0321-18	0321-11	Air Traffic Control Assistant
0311-06	0311-06	Air Traffic Control Branch Officer
2174-01	2174-01	Air Traffic Control Officer Grade A41
2174-02	2174-03	Air Traffic Controller
3151-01	3151-02	Air Traffic Safety Technician
4323-15	4323-15	Air Transport Operations Clerk
7127-02	7127-03	Air-Conditioning Equipment Mechanic
2173-10	2171-09	Aircraft Design Engineer
7232-02	7232-02	Aircraft Engine Fitter
7232-01	7232-01	Aircraft Engine Mechanic
2173-09	2171-08	Aircraft Engineer
0131-69	New	Aircraft Engineering Engineer
3151-15	2173-03	Aircraft Examiner Grade A29
2173-16	New	Aircraft Examiner Grade A43
2173-17	New	Aircraft Examiner Grade A47
2173-18	New	Aircraft Examiner Grade A51
2173-19	New	Aircraft Examiner Grade A53
2173-02	2173-02	Aircraft Examiner Grade AT41
7232-03	7232-03	Aircraft Maintenance Engineer (Airframes) Mechanic
7232-05	7232-05	Aircraft Maintenance Engineer (Engines) Mechanic
7232-06	7232-06	Aircraft Maintenance Mechanic
3151-05	3151-06	Aircraft Maintenance Technician (Airframes)
3151-06	3151-07	Aircraft Maintenance Technician (Engines)
7232-07	7232-07	Aircraft Mechanic
3151-07	3151-08	Aircraft Restorer
3151-04	3151-05	Aircraft Service Technician
3151-02	3151-03	Aircraft Technician
7232-08	7232-08	Airframe and Power Plant Mechanic
3151-08	3151-09	Airframe and Power Plant Technician
7232-09	7232-09	Airframe Mechanic
3151-09	3151-10	Airframe Technician
0321-05	0321-02	Airframe Technician
5111-07	5111-07	Airport Attendant
1121-11	1121-09	Airport Manager
2173-20	New	Airworthiness Review Staff
2145-11	2145-13	Alcohol Technologist
6221-05	6221-05	Algae Cultivator
3719-10	3719-12	Algojo

MASCO 2020	MASCO 2013	JOB TITLE
9111-01	9111-01	Amah
1112-26	1112-27	Ambassador
3258-01	3258-01	Ambulance Assistants
3258-02	3258-02	Ambulance Officer
3258-03	3258-03	Ambulance Paramedic
1321-20	New	Anaerobic Digester Biogas Plant Management
1321-19	New	Anaerobic Digester Biogas Plant Operation Manager
3134-23	New	Anaerobic Digester Biogas Plant Supervisor
2212-04	2212-04	Anaesthetist
2514-16	2514-16	Analog Integrated Circuit (IC) Design Verification Engineer
2511-43	2511-58	Analog Integrated Circuit (IC) Designer (Information Technology)
2141-26	New	Analog Integrated Circuit (IC) Package Design Engineer
2152-23	2152-36	Analog Integrated Circuit Designer (IC)
2514-08	2514-08	Analyst Programmer
2121-10	New	Analytical Consultant
2134-01	2134-01	Anatomist
3212-01	3212-02	Anatomy Technician
6222-07	6222-07	Anchorman
2512-35	New	Android Developer
2131-67	2131-68	Animal Behaviourist
5164-01	5164-02	Animal Caretaker
5419-14	5419-15	Animal Control Officer
2265-07	2265-07	Animal Nutritionist
2133-16	2133-17	Animal Scientist
1511-18	1511-15	Animation Director
2844-02	2844-03	Animation Producer
2514-27	2514-27	Animation Programmer
2542-22	New	Animation Supervisor
2542-08	2166-10	Animator
8121-21	8121-21	Annealer, Metal
2113-38	2113-41	Anodizing Specialist
4223-07	4223-08	Answering Service Operator
2822-02	2822-04	Anthropologist
4419-12	3411-02	Anti-Drug Assistant Grade S19
2825-13	2919-07	Anti-Drug Officer Grade S41
2413-21	New	Anti-Money Laundering Specialist
7412-23	New	AO Chargeman
6123-01	6123-01	Apiarist
2619-12	2619-13	Appeals Referee, Social Security Claims
2519-09	2519-09	Application Assurance Engineer (Information Technology)
2519-14	New	Application Consultant
2512-06	2512-06	Application Developer (.Net)
1511-12	1511-08	Application Development Manager
2512-07	2512-07	Application Engineer (.Net)
2519-10	2519-10	Application Security Engineer (Information Technology)
2531-07	New	Application Security Specialist
2212-67	New	Application Specialist (Biochemistry)
2212-66	New	Application Specialist (Hematology)
2212-65	New	Application Specialist (POCT/Point-of-care testing)
2511-25	2511-34	Application Specialist Support (Navision)
2514-09	2514-09	Applications Programmer
2121-11	New	Appointed Actuarie
4222-02	4222-02	Appointments Clerk
3315-01	3315-02	Appraiser
2912-02	2912-03	Appraising Executive Officer
2131-68	New	Aqua and Marine Reproduction Technologist
2426-08	New	Aqua and Marine Researcher
2265-16	New	Aqua Nutrionist Research and Development

MASCO 2020	MASCO 2013	JOB TITLE
3119-46	3139-10	Aquaculture Biotech Production Technician
2426-04	2426-07	Aquaculture Biotech Researcher
2132-14	New	Aquaculture Executive
9216-02	9216-02	Aquaculture Labourer
1312-03	1312-03	Aquaculture Production Manager
3144-05	New	Aquaculture Technician
3143-01	3143-03	Arboriculture Technician
2133-10	2133-10	Arboriculturist
2131-69	New	Arborist
2822-03	2822-05	Archaeologist
2161-02	2161-03	Architect
2161-06	New	Architect Grade 23
2161-01	2161-01	Architect Grade J41
3633-01	3633-01	Archives Assistant Grade S19
1624-03	1624-03	Archives Manager
2811-01	2811-01	Archives Officer Grade S41
2811-03	2811-05	Archivist
3122-13	3122-13	Area Co-Ordinator, Manufacturing
2431-26	3322-21	Area Support Sales Engineer
0121-14	0121-14	Armed Forces Religious Corps Officer
0131-12	New	Armor Crew
3632-11	3632-11	Armorial Designer
0131-58	New	Army Chef
2542-11	New	Art Director
2811-06	2811-08	Art Gallery Curator
5113-03	5113-03	Art Gallery Guide
1624-05	1624-05	Art Gallery Manager
3141-08	3141-08	Artificial Breeding Research Laboratory Assistant
3141-07	3141-07	Artificial Breeding Technician
2524-13	New	Artificial Intelligence Engineer (AI)
2514-15	2514-15	Artificial Intelligence Programmer
0131-31	New	Artillery Detectors
0131-30	New	Artillery Surveyor
2841-05	2841-05	Artist
3634-02	3634-02	Artist Cultural Grade B19
3632-05	3632-05	Artist Desktop Publishing
3632-08	3632-08	Artist Display
1624-12	New	Artist Manager
5241-03	5241-03	Artist Model
3634-31	New	Artist, Cultural B21
3634-32	New	Artist, Cultural B25
3634-04	2843-01	Artist, Cultural B29
3634-33	New	Artist, Cultural B31
3634-34	New	Artist, Cultural B37
3634-35	New	Artist, Cultural B39
6115-05	New	Asparagus Grower
2146-16	2146-16	Assayer
8211-01	8211-02	Assembler
8211-15	8211-16	Assembler, Agricultural Machinery
8211-05	8211-06	Assembler, Aircraft
8212-12	8212-13	Assembler, Audio-Visual Equipment
8211-04	8211-05	Assembler, Automobile
8212-04	8212-05	Assembler, Battery
8219-04	8219-05	Assembler, Bicycle
8212-08	8212-09	Assembler, Chronometer
8212-06	8212-07	Assembler, Clock
8219-02	8219-03	Assembler, Composite Products
8219-05	8219-06	Assembler, Door

MASCO 2020	MASCO 2013	JOB TITLE
8211-09	8211-10	Assembler, Earth-Moving Equipment
8212-01	8212-02	Assembler, Electrical Equipment
8212-05	8212-06	Assembler, Electric-Sign
8212-02	8212-03	Assembler, Electronic Equipment
8211-20	8211-21	Assembler, Engine
8211-03	8211-04	Assembler, Engine Marine
8219-06	8219-07	Assembler, Eyeglass Frame
8211-19	8211-20	Assembler, Gearbox
8212-10	8212-11	Assembler, Hearing Aide
8211-13	8211-14	Assembler, Industrial Machinery
8219-08	8219-09	Assembler, Jewellery
8219-09	8219-10	Assembler, Knife
8213-01	8213-01	Assembler, Leather Products
8211-10	8211-11	Assembler, Machine Tool
8213-02	8213-02	Assembler, Metal Products
8212-11	8212-12	Assembler, Microelectronics Equipment
8211-08	8211-09	Assembler, Mining Machinery
8211-18	8211-19	Assembler, Motor-Cycle
8212-09	8212-10	Assembler, Office Machinery
8219-11	8219-12	Assembler, Paperboard Products
8219-12	8219-13	Assembler, Pen and Pencil
8213-05	8213-05	Assembler, Plastic Toy
8213-04	8213-04	Assembler, Plastics Products
8212-13	8212-14	Assembler, Precision Instrument
8211-11	8211-12	Assembler, Printing Machinery
8211-06	8211-07	Assembler, Refrigeration and Air-Conditioning Equipment
8213-03	8213-03	Assembler, Rubber Products
8212-03	8212-04	Assembler, Semi-Conductor
8211-07	8211-08	Assembler, Sewing Machine
8219-13	8219-14	Assembler, Sun-Blinds
8212-14	8212-15	Assembler, Telephone
8212-15	8212-16	Assembler, Television
8211-12	8211-13	Assembler, Textile Machinery
8219-03	8219-04	Assembler, Textile Products
8219-14	8219-15	Assembler, Thermos Bottle
8211-22	8211-24	Assembler, Turbine
8213-06	8213-06	Assembler, Umbrella
8211-21	8211-22	Assembler, Vehicle
8212-07	8212-08	Assembler, Watches
8152-08	8152-08	Assembler, Weaving Machine
8219-01	8219-02	Assembler, Wood Products
8211-14	8211-15	Assembler, Wood Working Machinery
1215-03	New	Asset Development Lead
3611-30	2824-04	Assistant Executive Officer (Psychology) Grade 31
3313-09	2411-28	Assistant Account Executive Officer
3313-10	2411-29	Assistant Account Officer
3313-04	2411-03	Assistant Accountant Grade W29
3341-15	2425-05	Assistant Administrative Officer Grade N29
5153-11	New	Assistant Administrative, Hostel
3142-16	2132-06	Assistant Agricultural Officer Grade G29
3151-16	2174-02	Assistant Air Traffic Control Officer Grade A29
3611-29	2919-14	Assistant Anti-Drug Officer Grade S29
3118-33	New	Assistant Architectural Officer Grade 19
3118-26	New	Assistant Architectural Officer Grade JA29
3633-07	2811-03	Assistant Archives Officer Grade S29
3313-05	2411-32	Assistant Auditor Grade W29
5132-02	5132-02	Assistant Bartender
1221-15	New	Assistant Branch Manager

MASCO 2020	MASCO 2013	JOB TITLE
4312-25	4312-26	Assistant Broker
3112-37	2149-05	Assistant Building Surveyor Grade J29
3115-36	New	Assistant CAD/CAM Engineer (Computer-Aided Design and Manufacturing)
3255-10	New	Assistant Case Manager Grade 19
5231-02	5231-03	Assistant Cashier
3641-12	New	Assistant Chef
3641-13	New	Assistant Chef, Dim Sum
1121-34	New	Assistant Chief Operating Officer
3716-05	2916-02	Assistant Civil Defence Officer Grade KP29
3112-25	New	Assistant Civil Engineer
3611-27	2825-02	Assistant Community Development Officer Grade S29
3511-30	New	Assistant Computer System Executive
3511-32	2511-13	Assistant Computer Systems Analyst
3143-04	2132-07	Assistant Conservator of Forests Grade G29
5121-07	5121-10	Assistant Cook
9412-06	New	Assistant Cook Grade K3
3611-16	3611-18	Assistant Counselor
3633-08	2811-04	Assistant Curator Grade S29
3341-23	New	Assistant Divisional Officer Certification
8113-17	New	Assistant Driller
8311-09	8311-10	Assistant Driver, Locomotive
8332-02	8332-02	Assistant Driver, Lorry
3341-12	2821-02	Assistant Economic Affairs Officer Grade E29
3113-16	New	Assistant Electrical Engineer
3714-02	2914-02	Assistant Enforcement Officer Grade KP29
3112-23	2142-41	Assistant Engineer
3112-34	New	Assistant Engineer Grade 19
3112-19	New	Assistant Engineer Grade JA29
3112-30	New	Assistant Engineer Maintenance
3119-14	3119-18	Assistant Engineering, Production
3257-49	2133-25	Assistant Environmental Control Officer Grade C29
0131-42	New	Assistant Environmental Health Officer
3257-48	New	Assistant Environmental Health Officer Grade U29
3115-49	New	Assistant Equipment Engineer
3341-19	2425-20	Assistant Executive Administration Officer
3313-06	2411-04	Assistant Executive Officer (Accounting) Grade 31
3313-07	2411-06	Assistant Executive Officer (Accounting) Grade 6
3313-08	2411-08	Assistant Executive Officer (Accounting) Grade L8
3341-20	2425-04	Assistant Executive Officer (Administration) Grade 31
3341-18	2425-10	Assistant Executive Officer (Administration) Grade L8
3712-01	2912-02	Assistant Executive Officer (Appraiser) Grade 31
3313-11	2411-33	Assistant Executive Officer (Auditing) Grade 31
3313-12	2411-34	Assistant Executive Officer (Auditing) Grade 6
3313-14	2411-41	Assistant Executive Officer (Auditing) Grade L8
3341-21	2821-04	Assistant Executive Officer (Economic) Grade 6
3714-03	2914-04	Assistant Executive Officer (Enforcement) Grade L8
3112-20	2142-06	Assistant Executive Officer (Engineering) Grade 31
3112-22	2142-09	Assistant Executive Officer (Engineering) Grade L8
3313-15	2412-04	Assistant Executive Officer (Finance) Grade L8
3511-26	2522-04	Assistant Executive Officer (Information Technology) Grade 31
3511-27	2522-06	Assistant Executive Officer (Information Technology) Grade 6
3511-28	2522-08	Assistant Executive Officer (Information Technology) Grade L8
3411-12	2611-12	Assistant Executive Officer (Legal) Grade 31
3411-13	2611-14	Assistant Executive Officer (Legal) Grade 6
3411-14	2611-16	Assistant Executive Officer (Legal) Grade L8
3633-13	2812-04	Assistant Executive Officer (Library) Grade 31
3633-10	2812-06	Assistant Executive Officer (Library) Grade 6
3716-07	2919-16	Assistant Executive Officer (Safety) Grade 31

MASCO 2020	MASCO 2013	JOB TITLE
3343-01	3343-01	Assistant Executive Officer (Secretarial) Grade 31
3343-02	3343-02	Assistant Executive Officer (Secretarial) Grade 6
3343-03	3343-03	Assistant Executive Officer (Secretarial) Grade L8
3112-21	2142-08	Assistant Executive Officer (Technician) Grade L8
3712-02	New	Assistant Executive Officer, Appraiser
3411-16	New	Assistant Executive Officer, Legal
3633-12	New	Assistant Executive Officer, Library
3119-29	New	Assistant Factory and Machinery Inspector Grade JA29
3111-35	2113-04	Assistant Film Laboratory Officer C29
3719-11	2919-13	Assistant Fire Superintendent Grade KB29
3144-07	2132-08	Assistant Fisheries Officer Grade G29
3641-16	New	Assistant Food Preparation Executive
3641-17	3641-01	Assistant Food Preparation Officer Grade C29
3257-47	2113-03	Assistant Food Technology Officer Grade C29
3111-34	New	Assistant Geoscience Officer Grade C29
3341-17	1411-05	Assistant Hostel Manager Grade 29
5151-13	New	Assistant Housekeeping Executive
1622-20	New	Assistant Housekeeping Manager
3711-06	New	Assistant Immigration Superintendent Grade KP29
3115-35	New	Assistant Industrial Automation Engineer
3719-16	2919-15	Assistant Industrial Relation Officer Grade S29
3341-13	2432-02	Assistant Information Officer Grade S29
3511-29	2522-24	Assistant Information Technology Officer
3511-25	New	Assistant Information Technology Officer Grade FA29
4312-10	4312-10	Assistant Insurance Underwriting Supervisor
3612-06	2826-02	Assistant Islamic Affairs Officer Grade S29
3622-22	2399-04	Assistant Kesatria Officer Grade S29
3118-30	New	Assistant Land Admini Officer (Sabah and Sarawak) Grade NT29
3118-29	New	Assistant Land Officer (Peninsular) NT29
3142-17	2132-05	Assistant Land Planning Officer Grade G29
3118-28	New	Assistant Landscape Architect Grade JA29
3411-11	2611-10	Assistant Legal Officer Grade L29
3633-09	New	Assistant Librarian Grade S29
3633-11	2812-07	Assistant Library Executive
5152-05	New	Assistant Linen
1121-33	New	Assistant Manager
1121-31	New	Assistant Manager Grade P3
3152-08	2172-02	Assistant Marine Officer Grade A29
3322-16	New	Assistant Marketing Officer
7239-06	New	Assistant Mechanic
3115-37	New	Assistant Mechatronic Engineer
0131-40	New	Assistant Medical Officer
3256-15	2211-03	Assistant Medical Officer Grade U29
2269-05	New	Assistant Medical Officer Grade U41
3111-33	2112-02	Assistant Meteorological Officer Grade C29
3513-05	New	Assistant Network Engineer
3221-02	3221-02	Assistant Nurse
4111-23	New	Assistant Office
4121-02	4121-02	Assistant Office Secretary Grade N19
3719-13	2919-06	Assistant Officer, Investigation Grade P29
3719-14	New	Assistant Officer, Investigation Grade P31
3719-15	New	Assistant Officer, Investigation Grade P37
4419-06	New	Assistant Operation Grade N11
3142-19	New	Assistant Park/Estate Manager, Grade G29
0131-45	New	Assistant Pharmaceutical Officer
3213-05	2262-02	Assistant Pharmacy Officer Grade U29
7322-21	New	Assistant Printing
3719-12	2919-12	Assistant Prison Superintendent Grade KA29

MASCO 2020	MASCO 2013	JOB TITLE
1214-15	New	Assistant Project Manager
3611-28	2824-03	Assistant Psychological Officer Grade S29
3341-16	2832-04	Assistant Publication Officer Grade N29
3112-35	New	Assistant Quantity Surveyor Grade 19
3112-32	2149-04	Assistant Quantity Surveyor Grade JA29
3719-17	2919-05	Assistant Registration Officer Grade KP29
3111-37	2426-03	Assistant Research Officer Grade Q29
3111-36	2426-05	Assistant Scientific Officer Grade C29
3343-16	3343-16	Assistant Secretarial Executive Officer
1623-03	New	Assistant Security Manager
3716-06	2919-11	Assistant Security Officer Grade KP29
3611-26	2822-02	Assistant Social Research Officer Grade N29
3314-01	2121-03	Assistant Statistics Officer Grade E29
4321-42	New	Assistant Storekeeper
5415-02	5415-02	Assistant Superintendent of Custom Grade WK19
3711-05	2911-03	Assistant Superintendent of Customs Grade WK29
3122-30	New	Assistant Supervisor
3511-11	3511-11	Assistant Supervisor, Electronic Data Processing (EDP)
3118-31	New	Assistant Surveyor Grade JA29
3112-18	New	Assistant Surveyor, Building
3411-17	2611-11	Assistant Syariah Officer Grade LS20
3521-24	New	Assistant Telecommunications Engineer
5312-07	4419-02	Assistant Training Officer Grade E19
2381-05	2399-02	Assistant Training Officer Grade E29
3118-32	New	Assistant Urban and Rural Planning Officer Grade JA29
3315-09	2421-02	Assistant Valuation Officer Grade W29
3241-10	2251-02	Assistant Veterinary Officer Grade G29
0131-50	New	Assistant Veterinary Officer Grade G29
2381-03	2381-01	Assistant Vocational Training Officer Grade DV29
2381-06	New	Assistant Vocational Training Officer Grade DV35
2381-07	New	Assistant Vocational Training Officer Grade DV37
2381-08	New	Assistant Vocational Training Officer Grade DV39
4419-01	4419-16	Assistant Wardrobe
3115-50	New	Assistant Welding Engineer
3143-05	2131-02	Assistant Wildlife Officer Grade G29
3622-01	3622-02	Assistant Youth and Sport Officer Grade S29
3411-09	3411-13	Assistant, Barrister
8331-04	8331-04	Assistant, Bus Driver
5322-06	New	Assistant, Day Care: Aged
5322-11	New	Assistant, Day Care: Disabled
4111-20	New	Assistant, Designer
5419-18	New	Assistant, Investigation KR17
3411-15	2611-30	Assistant, Legal
4412-03	4412-03	Assistant, Mail Dispatch
8351-09	8351-09	Assistant, Shipping
3411-10	3411-14	Assistant, Solicitor
3117-23	New	Associate Field Professional
5161-01	5161-01	Astrologer
2111-29	2111-29	Astronaut
2111-23	2111-23	Astronomer
2111-24	2111-24	Astronomer, Radio
3111-19	3111-21	Astronomy Technician
2111-22	2111-22	Astrophysicist
3621-02	3621-02	Athlete
1112-43	New	Attache
9625-01	9625-02	Attendant
9625-13	9625-14	Attendant, Bowling-Alley
5111-11	New	Attendant, Coach

MASCO 2020	MASCO 2013	JOB TITLE
9625-16	9625-17	Attendant, Crane
5163-05	5163-05	Attendant, Crematorium
8161-10	8161-10	Attendant, Dairy Products Churning
9625-23	9625-24	Attendant, Fairground
8161-61	8161-61	Attendant, Filtration
8161-19	8161-19	Attendant, Foodgrain Milling
9625-08	9625-09	Attendant, Funfair
9625-03	9625-04	Attendant, Hospital
9625-19	9625-20	Attendant, Jetty
9625-02	9625-03	Attendant, Laboratory
9625-25	New	Attendant, Landscape
9625-11	9625-12	Attendant, Laundry
9625-12	9625-13	Attendant, Lavatory
9625-06	9625-07	Attendant, Lift
9625-21	9625-22	Attendant, Machine
9625-22	9625-23	Attendant, Maintenance
5163-01	5163-01	Attendant, Mortuary
9625-05	9625-06	Attendant, Parking
8161-60	8161-60	Attendant, Pasteurizer (Brewery)
9625-20	9625-21	Attendant, Public Area
9625-18	9625-19	Attendant, Ramp
9625-07	9625-08	Attendant, Recreational Amusement Park
9625-10	9625-11	Attendant, Restroom
9625-09	9625-10	Attendant, Room
8141-18	8141-18	Attendant, Smokehouse Rubber
9625-14	9625-15	Attendant, Snooker
9625-15	9625-16	Attendant, Sports
8161-41	8161-41	Attendant, Sterilizing Oil Palm
9333-13	9333-13	Attendant, Store
9625-17	9625-18	Attendant, Transport
8113-08	8113-08	Attendant, Trommel
9625-04	9625-05	Attendant, Veterinary
1112-04	1112-04	Attorney General
4311-12	4311-12	Auction Clerk
3339-01	3339-01	Auctioneer
2153-27	2152-16	Audio and Video Equipment Engineer
3521-13	3521-13	Audio and Video Equipment Technician
2153-29	New	Audio Designer
4131-03	4131-05	Audio Typist
1511-19	1511-16	Audio Visual Manager
2266-01	2266-01	Audiologists
3521-03	3521-03	Audio-Visual Operator
2391-07	2391-07	Audio-Visual Teaching Specialist
3521-01	New	Audio-Visual Technician Grade N19
2411-27	2411-37	Audit and Risk Assessment Executive
1211-06	1211-05	Audit and Risk Management Manager
3313-13	2411-38	Audit Assistant Executive Officer
4311-14	4311-15	Audit Clerk
2411-26	2411-36	Audit Executive
1211-05	1211-04	Audit Manager
4311-26	3313-02	AuditAssistant Grade W19
2411-05	2411-09	Auditing Accountant
2411-25	2411-35	Auditor
1112-06	1112-06	Auditor General
2411-40	New	Auditor, Halal Industry
2411-23	2411-30	Auditors Grade W41
2831-01	2831-01	Author
2263-24	New	Authorised Gas Tester

MASCO 2020	MASCO 2013	JOB TITLE
3115-44	New	AutoCad Drafter
8189-14	New	Automated Assembly Line Operator
2141-37	2152-26	Automation Design Engineer
2141-01	2141-01	Automation Engineer
3115-23	3115-25	Automation Robot Technician
3115-13	3115-15	Automobile Engineering Assistant
3115-03	3115-05	Automobile Engineering Technician
7231-14	7231-16	Automotive Brakes Systems Service Mechanic
3154-04	3154-04	Automotive Brakes SystemsTechnician
0131-62	New	Automotive Engineering Technician
7231-09	7231-11	Automotive Mechanic
5412-10	New	Auxiliary Police
3111-23	3111-25	Avalanche Controller
0321-04	New	Aviation Information Technology Technician
3151-03	3151-04	Aviation Maintenance Technician
0321-11	New	Aviation Support Equipment Technician
0131-67	New	Avionic Engineering Technician
0321-02	New	Avionics Technician
2231-06	2231-06	Ayurvedic Practitioner
2541-03	2166-32	2D Animator
2542-07	New	2D Artist
2541-02	New	3D Animator
2542-06	2166-33	3D Artist
2541-05	New	3D Modeller
		B
5311-02	5311-02	Baby Amah
5311-04	5311-04	Baby-Sitter
2131-55	2131-56	Bacteriologist
2131-61	2131-62	Bacteriologist, Agricultural
2131-64	2131-65	Bacteriologist, Dairy
2131-59	2131-60	Bacteriologist, Fishery
2131-57	2131-58	Bacteriologist, Food
2131-60	2131-61	Bacteriologist, Industrial
2131-62	2131-63	Bacteriologist, Medical
2131-58	2131-59	Bacteriologist, Molecular
2131-56	2131-57	Bacteriologist, Pharmaceutical
2131-63	2131-64	Bacteriologist, Soil
2131-65	2131-66	Bacteriologist, Veterinary
3141-13	3141-13	Bacteriology Technician
3411-01	3411-03	Baillif
7512-01	7512-01	Baker
7512-09	New	Bakery Assistant
7311-17	7311-17	Balancing Machine Repairer
7311-09	7311-09	Balancing Maker
0131-29	New	Ballistic Data Processing
2111-04	2111-04	Ballistician
2842-14	2842-14	Band Conductor
2842-08	2842-08	Band Leader
2413-23	2411-22	Bank Accounting Analyst
4211-07	4211-08	Bank Assistant
4211-06	4211-07	Bank Clerk
2412-07	2412-09	Bank Executive Officer
1616-04	1616-04	Bank Manager
4211-02	4211-02	Bank Teller
2619-06	2619-07	Bankruptcy Officer
5151-01	5151-01	Banquet Hotel and Lodging Supervisor
1412-02	1412-02	Bar Manager

MASCO 2020	MASCO 2013	JOB TITLE
7111-06	New	Barbender
3641-05	3641-08	Barbeque Chef
5141-03	5141-03	Barber
5131-10	5132-04	Barista
7311-10	7311-10	Barometer Maker
2611-18	2611-29	Barrister
5132-01	5132-01	Bartender
2113-34	2113-37	Basin Modeller
7317-03	7317-04	Basket Maker
7319-01	7319-01	Batch Maker
8112-11	8112-11	Batching Plant Operator
2163-14	New	Batik Designer
7318-02	7318-02	Batik Painter
5419-15	5419-16	Beach Patrolman/Woman
5142-02	5142-02	Beautician
5142-01	5142-01	Beautician Grade B19
5142-11	New	Beautician Grade B21
5142-12	New	Beautician Grade B25
5142-13	New	Beautician Grade B27
5142-08	5142-08	Beauty and Health Therapist
3257-20	3257-20	Beauty Salon Inspector
7234-02	7234-02	Trishaw Repairer
2134-35	2134-35	Bee Cultivation Specialist
6123-03	6123-07	Beekeeper
5151-10	5151-11	Bell Captain, Hotel and Lodging
9112-07	9112-07	Bellboy
2825-06	2825-07	Bereavement Counsellor
3152-02	3152-02	Berthing Master
4212-01	4212-01	Betting Counter Clerk
2812-06	2812-10	Bibliographer
7234-04	7234-04	Bicycle Mechanic
7234-01	7234-01	Bicycle Repairer
1211-24	New	Bidding Manager
2524-10	New	Big Data Analyst
2524-02	New	Big Data Engineer
3612-04	3612-05	Bilal
4214-02	4214-02	Bill Collector
9621-11	9621-14	Bill Poster
3623-02	3623-02	Billiard Instructor
4311-18	4311-19	Billing Clerk
2522-23	New	Billing Specialist
2522-37	New	BIM Coordinator (Building Information Modeling)
2182-32	New	Bindery Specialist
2134-02	2134-02	Biochemist
2134-04	2134-04	Biochemist, Clinical
2134-03	2134-03	Biochemist, Enzymes
2134-05	2134-05	Biochemist, Proteins
2134-06	2134-06	Biochemist, Steroids
3141-14	3141-14	Biochemistry Technician
2113-39	2145-25	Biodynamic Compost Expert
2134-33	New	Bio-Fermentation Specialist
1321-34	New	Biofuel Plant Manager
3131-19	New	Biofuel Plant Operation Supervisor
3131-20	New	Biofuel Plant Operator
3131-18	New	Biofuel Plant Technician
2831-02	2831-02	Biographer
1511-27	1511-24	Bioinformatics Manager
3141-01	3141-01	Biological Technician

MASCO 2020	MASCO 2013	JOB TITLE
2131-08	2131-09	Biologist
2131-10	2131-11	Biologist, Aquatic
2131-09	2131-10	Biologist, Fresh Water
2131-11	2131-12	Biologist, Marine
1321-16	New	Biomass Energy Generation Plant (BEGP) Assistant Manager
1321-15	New	Biomass Energy Generation Plant (BEGP) Manager
3131-14	New	Biomass Energy Generation Plant Operator (Fuel Preparation)
3131-15	New	Biomass Energy Generation Plant Supervisor (Raw Material Handlings)
7413-11	New	Biomass Installation and Maintenance Installer
2163-23	New	Biomass Technology Designer
2149-19	2149-16	Biomedical Engineer
2121-08	2121-10	Biometrician
2134-08	2134-08	Biophysicist
3212-03	3212-04	Biophysics Technician
2182-24	New	Biotech Assistant
2131-12	2131-13	Biotechnologist
7511-09	New	Bird's Nest Cleaner
5321-08	5321-08	Birth Assistant (Clinic or Hospital)
5322-02	5322-02	Birth Assistant (Home)
7221-01	7221-02	Blacksmith
3135-04	New	Blast Furnace Operator
7632-02	7632-02	Blaster
2146-49	New	Blasting Expert
7632-03	7632-03	Blasting Worker
8131-25	8131-25	Bleach Operator, Chemical
8161-23	8161-23	Blender, Flour
2269-03	New	Blind Therapist
3117-18	3117-19	Block Boring Technician
7322-03	7322-03	Block Printer
2512-38	New	Blockchain Developer
7112-06	7112-06	Blocklayer
3212-02	3212-03	Blood-Bank Technician
7412-24	New	BO Chargeman
2152-18	2152-31	Board Design Engineer
7115-05	7115-07	Boatbuilder, Wood
8351-16	8351-16	Boatswain
5414-07	5414-07	Bodyguard
3134-19	3134-19	Boiler Operator Supervisor
8182-03	8182-03	Boiler Operator, Ship
2182-17	New	Boiler Superintendents
7213-03	7213-05	Boilermaker
8182-02	8182-02	Boilerman
8182-08	New	Boilerman Grade K2
2413-02	2413-02	Bond Analyst
4312-26	4312-27	Bond Clerk
3231-07	3231-07	Bonesetter
6113-06	6113-06	Bonsai Grower
2831-19	2831-19	Book Editor
7323-04	7323-04	Book Embosser
7323-05	7323-05	Book Finisher
3632-06	3632-06	Book Illustrator
7323-01	7323-01	Bookbinder
4221-04	4221-04	Booking Clerk
3313-01	3313-05	Book-Keeper
4311-05	4311-05	Book-keeping Clerk
4311-04	4311-04	Book-keeping Machine Clerk
4212-02	4212-02	Bookmaker Clerk
3711-03	3711-03	Border Inspector

MASCO 2020	MASCO 2013	JOB TITLE
0121-16	0121-16	Border Regiment Officer
8113-10	8113-10	Bore Sinker
7213-04	7213-06	Borer
8113-09	8113-09	Boring Equipment Operator
7223-04	7223-04	Boring Machine Operator
3141-05	3141-05	Botanical Assistant
3141-06	3141-06	Botanical Research Laboratory Assistant
3141-04	3141-04	Botanical Technician
2131-20	2131-21	Botanist
2131-26	2131-27	Botanist, Ecology
2131-21	2131-22	Botanist, Economic
2131-22	2131-23	Botanist, Histology
2131-23	2131-24	Botanist, Mycology
2131-25	2131-26	Botanist, Soil
2131-24	2131-25	Botanist, Taxonomy
9321-11	9329-09	Bottle Sorter
3621-03	3621-03	Boxer
7321-02	7321-05	Braille Plate Maker
8312-01	8312-01	Braker, Railway
1221-14	New	Branch Manager
1221-08	1221-07	Brand Manager
0321-25	0221-14	Brass Band
7212-07	7212-09	Brazier
6121-17	New	Breeder, Cat
6121-18	New	Breeder, Cattle
6121-02	6121-02	Breeder, Dairy
6121-19	New	Breeder, Dog
6122-08	6129-05	Breeder, Game Bird
6121-16	New	Breeder, Horse
6121-01	6121-01	Breeder, Livestock
6122-05	6122-05	Breeder, Poultry
6121-20	New	Breeder, Reindeer
6129-07	New	Breeder, Reptile
6129-08	New	Breeder, Sea Snail
2145-12	2145-14	Brewing Technologist
7112-01	7112-01	Bricklayers
0131-18	7112-01	Bricklayers
7112-09	New	Bricklayers, Construction
2145-20	2145-23	Briquetting Plant Engineer
2153-11	2153-11	Broadcast Engineer
3521-12	3521-12	Broadcast Technician
3521-20	3521-20	Broadcasting Equipment Operator
3521-14	3521-14	Broadcasting Equipment Technician
4312-17	4312-18	Brokerage Clerk
7317-04	7317-05	Broom Maker
7317-07	7317-08	Brush Maker
1113-15	1113-15	Buapak
9311-01	9311-01	Bucket Labourer
1411-08	1411-09	Budget Hotel Manager
1211-04	1211-03	Budget Manager
7612-02	7612-03	Builder, Bullock Cart
1323-10	New	Building and Architecture Manager
2161-04	2161-05	Building Architect
2263-29	New	Building Auditor
5153-02	5153-02	Building Caretaker
3112-16	New	Building Contractor
1323-17	New	Building Demolition Assistant Manager
1323-16	New	Building Demolition Manager

MASCO 2020	MASCO 2013	JOB TITLE
3112-29	New	Building Demolition Technician
7111-04	7119-08	Building Frame Worker
1511-38	New	Building Information Modelling Manager (BIM)
3112-11	3112-15	Building Inspector
2914-05	2914-07	Building Permit (Licensing) Officer
5419-27	3714-06	Building Permit Assistant (Licensing)
3112-36	New	Building Surveying Technical Assistant Grade 19
2142-54	New	Building Surveyor Grade 23
2142-46	2149-02	Building Surveyor Grade J41
0131-60	New	Bullet Technician
5112-01	5112-01	Bus Conductor
5111-12	New	Bus Crew Grade K3
1214-12	New	Business and Product Development Manager
2431-09	New	Business Compliance Executive
2421-05	2431-05	Business Consultant
2521-14	New	Business Database Analysts
2431-15	New	Business Development Engineer
2431-21	3322-15	Business Development Executive
1214-07	1214-06	Business Development Manager
2431-04	2431-04	Business Efficiency Officer
2431-05	New	Business Executive
2914-06	2914-08	Business Permit (Licensing) Officer
5419-28	3714-07	Business Permit Assistant (Licensing)
2141-39	New	Business Process Automation Expert
1214-04	1214-03	Business Services Development Manager
5211-06	5211-06	Butcher
5152-02	5152-02	Butler
7513-03	7513-03	Butter Maker
3323-03	3323-03	Buyer
3323-04	3323-04	Buyer, Production Purchasing
3323-14	New	Buying Agent
		C
2512-09	2512-09	C/C++ Developer
2514-19	2514-19	C/C++ Programmer
2512-10	2512-10	C/C++ Software Engineer
2514-20	2514-20	C++ Graphics Programmer
2514-39	2511-15	C++ Software Analyst
6115-04	New	Cabbage Grower
5111-08	5111-08	Cabin Crew
5112-05	5112-06	Cable Car Conductor
7413-02	7413-07	Cable Line Worker
2144-50	New	CAD Automation Engineer (Computer-Aided Design)
2144-51	New	CAD Engineer (Computer-Aided Design)
2144-49	New	CAD/CAM Engineer (Computer-Aided Design and Manufacturing)
3115-38	New	CAD/CAM Technician (Computer-Aided Design and Manufacturing)
2165-14	2165-15	Cadastral Surveyor
9621-09	9621-12	Caddie
2511-58	New	CAE Engineer (Computer-Aided Engineering)
1412-03	1412-03	Cafe Manager
1412-05	1412-05	Cafe, Bar and Snack-Bar Manager
5246-02	5246-02	Cafeteria Counter Attendant
9216-04	9216-04	Cage Worker, Fish
3115-51	New	Calibration Technician
4222-06	4222-06	Call Centre Agent (Customer Service)
4222-04	4222-04	Call Centre Clerk
1222-08	1222-08	Call Centre Manager
2432-17	2432-18	Call Centre Officer

MASCO 2020	MASCO 2013	JOB TITLE
1222-09	1222-09	Call Centre Operation Manager
5244-06	5244-08	Call Centre Salesperson
3512-12	3512-12	Call Centre Trainer
7639-03	New	Camera Operator
3521-21	3521-21	Cameraman/Woman (Motion Picture)
3521-22	3521-22	Cameraman/Woman (Video)
5153-10	5153-10	Camp Supervisor
1621-16	1621-16	Camping Site Manager
1412-04	1412-04	Canteen Manager
3322-03	3322-03	Canvasser
6223-04	New	Captain, Fishing: Deep-Sea
7231-13	7231-15	Car Detailer
3113-11	3113-12	Car Electrical Technician
9511-03	9511-05	Car Guard
8322-08	8322-08	Car Jockey
1622-25	New	Car Park Manager
4214-08	4214-08	Car Rental Clerk
1621-10	1621-10	Caravan Park Manager
8161-72	8161-72	Carbonation Man (Malt Liquor)
2113-35	2113-38	Carbonization Specialist
2212-05	2212-05	Cardiac Anaesthetist
2212-10	2212-10	Cardiologist
5322-01	5322-01	Care Aide (Home)
5322-05	New	Care Aide (Home) Grade K3
2423-09	2423-09	Career Adviser
4321-35	4321-37	Cargo Clerk
3152-04	3152-04	Cargo Ships Traffic Supervisor
7115-01	7115-03	Carpenter
7115-02	7115-04	Carpenter, Construction
7115-07	7115-09	Carpenter, Ship
7115-09	7115-11	Carpenter, Stage and Studio
7115-10	7115-12	Carpenter, Table
7621-10	7621-11	Carpet Mender
7318-11	7318-11	Carpet Weaver
2165-03	2165-04	Cartographer
2165-04	2165-05	Cartographer, Marine
2841-02	2841-02	Cartoonist
3632-21	3632-21	Carve Technician
7113-06	7113-07	Carver, Stone
7612-17	7612-18	Carver, Wood
7113-08	7113-09	Carver-Setter, Monument
7613-04	7613-04	Carving Machine Operator (Wood)
2141-28	New	Carving Technologist
2268-03	New	Case Manager Grade 23
4211-03	4211-03	Cash Counter Clerk
5231-01	5231-01	Cashier
5231-19	New	Cashier Grade K2
5231-10	5231-12	Cashier, Booking-Office
5231-07	5231-09	Cashier, Cafeteria
5231-14	5231-16	Cashier, Cash Desk
5231-13	5231-15	Cashier, Check-Out
5231-15	5231-18	Cashier, Currency Exchange
5231-08	5231-10	Cashier, Food and Beverage
5231-03	5231-04	Cashier, Parking
5231-05	5231-07	Cashier, Petrol Pump Station
5231-11	5231-13	Cashier, Race Track
5231-09	5231-11	Cashier, Restaurant
5231-04	5231-06	Cashier, Store

MASCO 2020	MASCO 2013	JOB TITLE
5231-06	5231-08	Cashier, Theatre
5231-18	5231-21	Cashier, Theme Park
4212-04	4212-04	Casino Clerk
1621-07	1621-07	Casino Manager
7314-04	7314-04	Caster, Pottery and Porcelain
2146-21	2146-21	Casting Engineer
8122-10	8122-10	Casting Finisher
0321-20	New	Catalog (Meterial)
2812-10	2812-14	Cataloguer
1412-06	1412-06	Catering Manager
2151-17	2151-19	Cell Engineer
8131-15	8131-15	Cement Furnaceman
2141-21	2141-21	Cement Technologist
7114-07	7114-07	Cementer
7114-08	7114-08	Cementer, Petroleum and Gas Wells
3135-05	New	Central Control Caster
2841-08	2841-08	Ceramic Artist
7316-04	7316-04	Ceramics Dipper
2141-20	2141-20	Ceramics Technologist
2411-19	2411-24	Certified Accountant
2541-04	New	CG Modeler
1121-20	1121-18	Chairperson of Organization
9112-01	9112-01	Chambermaid
1615-02	1615-02	Chancellor
1221-12	New	Channel Partner Manager
9111-09	9111-09	Char Worker, Domestic
2543-09	2166-24	Character Designer
2543-18	New	Character Rigger
6211-21	6211-22	Charcoal Burner
7412-21	New	Chargeman
7412-02	7412-02	Chargeman Grade 11
7412-01	7412-01	Chargeman Grade J19
7412-22	New	Chargeman Grade P4
4214-03	4214-03	Charity Collector
2411-12	2411-16	Chartered Accountant
6211-04	6211-05	Chaser
8322-05	8322-05	Chauffeur
8322-12	New	Chauffeur Grade K3
6211-16	6211-17	Checker, Log
6111-16	6111-16	Checker, Plantation
5222-04	5222-04	Checkout Supervisor
7513-01	7513-01	Cheese Maker
3641-04	3641-07	Chef
2712-08	New	Chef de Cuisine
3641-02	3641-05	Chef De Partie
1412-15	New	Chef Manager
2263-27	New	Chemical Assessor
2145-03	2145-04	Chemical Engineer
3116-10	3116-10	Chemical Engineering Assistant
3116-09	3116-09	Chemical Engineering Estimator
3116-01	3116-01	Chemical Engineering Technician
2145-01	2145-02	Chemical Engineering Technologist
3116-05	3116-05	Chemical Petroleum Technician
3133-02	3133-02	Chemical Plant Supervisor
2145-04	2145-06	Chemical Process Engineer
3116-02	3116-02	Chemical Process Engineering Technician
3133-01	3133-01	Chemical Process Technician
2145-02	2145-03	Chemical Process Technologist

MASCO 2020	MASCO 2013	JOB TITLE
3133-04	3133-04	Chemical-Filtering and Separating Equipment Operator
3133-03	3133-03	Chemical-Heat-Treating-Plant Operator
3133-05	3133-05	Chemical-Still and Reactor Operator
2113-02	2113-05	Chemist
2113-12	2113-15	Chemist, Analysis
2134-07	2134-07	Chemist, Biological
2113-08	2113-11	Chemist, Corrosion
2113-25	2113-28	Chemist, Crystallography
2113-15	2113-18	Chemist, Detergent
2113-22	2113-25	Chemist, Dye
2113-19	2113-22	Chemist, Food
2113-06	2113-09	Chemist, Glass
2113-20	2113-23	Chemist, Industrial
2113-05	2113-08	Chemist, Inorganic
2113-16	2113-19	Chemist, Leather
2113-07	2113-10	Chemist, Metallurgy
2113-26	2113-29	Chemist, Nuclear
2113-04	2113-07	Chemist, Organic
2113-17	2113-20	Chemist, Paint
2113-21	2113-24	Chemist, Petroleum
2113-24	2113-27	Chemist, Pharmaceutical
2113-11	2113-14	Chemist, Physical
2113-09	2113-12	Chemist, Plastics
2113-10	2113-13	Chemist, Polymer
2113-18	2113-21	Chemist, Quality Control
2113-13	2113-16	Chemist, Research and Development
2113-03	2113-06	Chemist, Rubber
2113-23	2113-26	Chemist, Textile
2113-14	2113-17	Chemist, Water Purification
3111-10	3111-12	Chemistry Laboratory Assistant
3111-06	3111-08	Chemistry Technician
3623-03	3623-03	Chess Instructor
3621-08	3621-08	Chess player
2411-34	New	Chief Accountants
1112-35	1112-40	Chief Administrator Parliament
4111-15	4111-15	Chief Clerk
1612-17	New	Chief Clinical Officer
1214-01	New	Chief Compliance Officer
5121-12	5121-03	Chief Cook
2149-15	New	Chief Customer Quality Engineer
1511-02	New	Chief Data Officer
1121-16	1121-14	Chief Executive of Organization
1112-23	1112-24	Chief Executive of Statutory Body
1121-01	1121-01	Chief Executive Officer
1112-22	1112-23	Chief Executive Officer of Statutory Body
1211-17	New	Chief Financial Controller
1211-01	1211-06	Chief Financial Officer (CFO)
3122-11	3122-11	Chief Hookman Supervisor
1212-01	New	Chief Human Resources Officer
1511-01	1511-09	Chief Information Officer
1511-03	New	Chief Information Security Officer
1511-05	New	Chief Information Technology Architect
1511-04	1511-02	Chief Information Technology Officer
1121-03	1121-22	Chief Legal Officer
1221-01	New	Chief Marketing Officer
1111-06	1111-06	Chief Minister
1112-09	1112-09	Chief of Defence Force
4111-16	4111-16	Chief Office

MASCO 2020	MASCO 2013	JOB TITLE
1121-02	1121-02	Chief Operating Officer
2141-33	New	Chief Package Modelling Engineer
1612-18	New	Chief Public Health Officer
2141-34	New	Chief Reliability Engineer
1112-02	1112-02	Chief Secretary to the Government
1112-18	1112-18	Chief Statistician
1121-04	New	Chief Technical Officer
4224-15	New	Chief, Concierge
7231-21	New	Chief, Mechanic
5414-18	New	Chief, Security Guard
2825-07	2825-08	Child and Youth Counsellor
1611-01	1611-01	Child Care Centre Manager
5311-01	5311-01	Child Care Worker
6115-03	6115-04	Chili Farmer
7112-08	7112-08	Chimney Builder
7133-03	7133-03	Chimney Sweeper
7511-02	7511-02	Chipper Meat
2269-08	New	Chiropodist
2269-06	3259-01	Chiropractor
3134-07	3134-07	Chlorine Plant Operator
7512-04	7512-04	Chocolate Maker
6211-18	6211-19	Chokerman, Logging
2843-03	2843-04	Choreographer
1624-09	1624-09	Cinema Manager
3521-10	3521-10	Cinema Projectionist
3521-02	3521-02	Cinematographer
2847-08	2847-09	Circus Performer, Animal
2142-43	New	Civil and Structure Design Engineer
5419-20	3716-01	Civil Defence Assistant Grade KP19
2916-02	2916-03	Civil Defence Officer
2916-01	2916-01	Civil Defence Officer Grade KP41
2142-07	2142-13	Civil Engineer
2142-11	2142-17	Civil Engineer, Aerodome Construction
2142-22	2142-28	Civil Engineer, Bridge Construction
2142-12	2142-18	Civil Engineer, Building Construction
2142-17	2142-23	Civil Engineer, Building Structure
2142-15	2142-21	Civil Engineer, Chimney Construction
2142-10	2142-16	Civil Engineer, Construction
2142-13	2142-19	Civil Engineer, Dock and Harbour Construction
2142-26	2142-32	Civil Engineer, Dredging
2142-21	2142-27	Civil Engineer, Geothechnic
2142-18	2142-24	Civil Engineer, Highways and Road
2142-27	2142-33	Civil Engineer, Hydraulics
2142-28	2142-34	Civil Engineer, Hydrology
2142-25	2142-31	Civil Engineer, Irrigation
2142-29	2142-35	Civil Engineer, Public Health
2142-20	2142-26	Civil Engineer, Railway Construction
2142-19	2142-25	Civil Engineer, Road Construction
2142-30	2142-36	Civil Engineer, Sanitation
2142-24	2142-30	Civil Engineer, Soil Mechanics
2142-16	2142-22	Civil Engineer, Structural
2142-14	2142-20	Civil Engineer, Tower Construction
2142-23	2142-29	Civil Engineer, Tunnel Construction
3112-03	3112-06	Civil Engineering Assistant
3112-04	3112-07	Civil Engineering Estimator
3112-09	3112-13	Civil Engineering Supervisor
3112-02	3112-05	Civil Engineering Technician
2142-06	2142-12	Civil Engineering Technologist

MASCO 2020	MASCO 2013	JOB TITLE
3716-01	3716-03	Civil Service Inspector
4312-09	4312-09	Claim Clerk
4323-03	4323-03	Claim Clerk, Transportation
1211-15	New	Claim Manager
4323-33	New	Claim Officer, Train
3321-06	New	Claim Underwriters
3315-05	3315-06	Claims Assessor
3312-05	3312-05	Claims Executive
3315-04	3315-05	Claims Inspector
3321-09	New	Claims Officer
8181-28	8181-28	Clay Maker, Pottery
2144-56	New	Clean Car Engineer
9111-08	9111-08	Cleaner
9112-09	9112-09	Cleaner, Aircraft (Interior)
9112-05	9112-05	Cleaner, Building
7133-01	7133-01	Cleaner, Building Exteriors
9129-03	9129-03	Cleaner, Carpet
9129-05	9129-05	Cleaner, Graffiti
9112-02	9112-02	Cleaner, Hotel
9111-06	9111-06	Cleaner, House
8141-20	8141-20	Cleaner, Latex Tank
8122-11	8122-11	Cleaner, Metal
9112-03	9112-03	Cleaner, Office
9129-07	New	Cleaner, River
9123-02	9123-02	Cleaner, Sliding Door
9123-03	9123-03	Cleaner, Surface
9129-04	9129-04	Cleaner, Swimming Pool
9122-01	9122-01	Cleaner, Vehicles
9112-10	9112-10	Cleaner, Vehicles (Interior)
9123-01	9123-01	Cleaner, Window
1622-02	1622-02	Cleaning Manager
3129-01	New	Cleaning Supervisor
9112-12	New	Cleaning Worker
9613-05	9613-05	Cleaning Worker, Blowing Machine
9613-06	9613-06	Cleaning Worker, Vacuming Machine
3331-01	3331-01	Clearing Agent
3331-04	New	Clearing and Forwarding Agent
4412-08	4412-08	Clerical Controller, Mail
4412-07	4412-07	Clerical Controller, Mail Depot
4412-07	4412-07	Clerical Inspector, Railway Transport Service
4412-09	4412-09	Clerical Controller, Postal Service
4323-34	New	Clerical Controller, Train Service
3341-06	3341-06	Clerical Supervisor
4415-05	4415-06	Clerk Control Document
4111-27	New	Clerk Officer Grade 14
4412-11	4412-11	Clerk, Address List
4416-06	4416-07	Clerk, Addressing Machine
5223-12	4419-18	Clerk, Advertising
4416-08	4416-09	Clerk, Classification
4312-29	New	Clerk, Clearing House, Banking
4415-02	4415-02	Clerk, Compilation Directory
3411-07	3411-11	Clerk, Court
4415-08	4415-09	Clerk, Document
4415-04	4415-05	Clerk, Document Copying
4416-01	New	Clerk, Employment
4322-05	4322-05	Clerk, Engineering
4322-26	4322-26	Clerk, Facilities Maintenance
4415-01	4415-01	Clerk, Filing
4323-16	4323-16	Clerk, Flight Operation
4322-16	4322-16	Clerk, Food and Beverage Research
4416-02	4416-02	Clerk, General Affairs
4416-04	4416-05	Clerk, Human Resource

MASCO 2020	MASCO 2013	JOB TITLE
3411-06	3411-10	Clerk, Judge
5223-06	4419-09	Clerk, Local Sales
4322-08	4322-08	Clerk, Logging
4412-10	4412-10	Clerk, Mail
4412-02	4412-02	Clerk, Mail Dispatch
4412-06	4412-06	Clerk, Mail Sorting
4412-12	4412-12	Clerk, Mailling List
4322-14	4322-14	Clerk, Maintenance
5223-04	4419-07	Clerk, Marketing
4322-07	4322-07	Clerk, Mill Office
4322-15	4322-15	Clerk, Motor Maintenance
4322-03	4322-03	Clerk, Operation
4322-12	4322-12	Clerk, Order Management
4322-18	4322-18	Clerk, Order Material
4322-10	4322-10	Clerk, Packing
4416-03	4416-03	Clerk, Personnel
4415-03	4415-04	Clerk, Photocopying
4322-17	4322-17	Clerk, Planning Material
4322-24	4322-24	Clerk, Planning Production
4322-04	4322-04	Clerk, Plantation
4322-23	4322-23	Clerk, Power Plant
4416-09	4416-10	Clerk, Probate
4322-11	4322-11	Clerk, Procurement
4322-01	4322-01	Clerk, Production
4322-13	4322-13	Clerk, Production Administrative
4322-02	4322-02	Clerk, Production Control
4322-09	4322-09	Clerk, Purchasing Material
4322-06	4322-06	Clerk, Quality and Ecology
4322-28	4322-28	Clerk, Quality Assurance
4322-29	4322-29	Clerk, Quality Control
4416-07	4416-08	Clerk, Registry
5223-03	4419-06	Clerk, Sales
5223-08	4419-11	Clerk, Sales Admin
5223-05	4419-08	Clerk, Sales and Marketing
5223-07	4419-10	Clerk, Sales Counter
5223-10	4419-14	Clerk, Sales Order
4322-21	4322-21	Clerk, Service
4323-22	4323-22	Clerk, Shipping and Purchasing
4322-22	4322-22	Clerk, Site
4322-27	4322-27	Clerk, Technical
4322-25	4322-25	Clerk, Technician
5223-09	4419-13	Clerk, Telesales
5231-12	5231-14	Clerk, Ticket Issuing (Except Travel)
5231-16	5231-19	Clerk, Toll Collection
4322-20	4322-20	Clerk, Tooling
4323-18	4323-18	Clerk, Traffic
3112-05	3112-08	Clerk-Of-Work
3111-24	3111-26	Climate Data Processor
2112-12	2112-13	Climate Service Specialist
3111-25	3111-27	Climate Service Technician
2112-03	2112-04	Climatologist
3256-04	3256-05	Clinical Assistant
3252-02	3252-02	Clinical Coder
2265-12	2265-12	Clinical Dietician
1612-07	1612-07	Clinical Director
3256-13	3256-14	Clinical Instructor
2221-03	2221-04	Clinical Nurse

MASCO 2020	MASCO 2013	JOB TITLE
2241-03	2241-03	Clinical Officer (Paramedical)
2824-04	2824-06	Clinical Psychologist
2522-22	New	Cloud Computing Solution Architect
2522-27	New	Cloud Planner
2523-07	New	Cloud Specialist
2522-26	New	Cloud Technology Specialist
2847-04	2847-04	Clown
5169-01	5169-02	Club Host
1621-08	1621-08	Club Manager
3623-07	3623-07	Clubhouse Supervisor
2144-48	New	CNC Machine Engineer (Computer Numerical Control)
7233-15	New	CNC Machinist (Computer Numerical Control)
2144-53	New	CNC Programmer (Computer Numerical Control)
3115-33	New	CNC Supervisor (Computer Numerical Control)
3115-27	New	CNC Technician (Computer Numerical Control)
3622-20	New	Coach, General
3117-17	3117-18	Coal Mine Technician
8111-13	8111-13	Coal Miner
8112-12	8112-12	Coal Washer
5419-10	5419-11	Coastguard
7623-05	7623-05	Cobbler
2512-11	2512-11	Cobol Developer
2514-21	2514-21	Cobol Programmer
9211-20	9211-22	Coconut Tapper
4413-04	4413-05	Coding Clerk
4413-02	4413-02	Coding Clerk, Data-Processing
5141-01	5141-01	Coiffeur
4312-27	4312-28	Collateral Clerk
7323-06	7323-06	Collator Operator
6341-04	6341-04	Collector, Bird's Nest
6341-17	New	Collector, Forestry Production
9611-03	9611-03	Collector, Garbage
6341-13	New	Collector, Hunter
9612-06	9612-06	Collector, Old Metal
9612-07	9612-07	Collector, Old Newspaper
6341-09	6341-09	Collector, Ornamental Stone
6341-01	6341-01	Collector, Petai
9611-04	9611-04	Collector, Refuse
6341-02	6341-02	Collector, Resin
9612-08	9612-08	Collector, Scrap
6341-08	6341-08	Collector, Subsistence
9625-24	9625-25	Collector, Ticket Usher
9623-02	9623-02	Collector, Vending-machine
2425-09	2425-16	College/University Registrar
2832-02	2832-06	Columnist
0131-38	New	Combat Reporters
2846-07	2846-07	Commentator
2841-09	2841-09	Commercial Artist
6222-08	6222-08	Commercial Fisherman
3631-03	3631-04	Commercial Illustration Photographer
3631-12	3631-13	Commercial Photographer
2163-01	2163-01	Commercial Products Designer
2431-27	3322-25	Commercial Railway Officer
5121-06	5121-09	Commis
2619-01	2619-02	Commissioner for Oaths
2149-23	New	Commissioning Engineer
3324-01	3324-01	Commodities Broker
2141-06	2141-06	Communication Analyst

MASCO 2020	MASCO 2013	JOB TITLE
3512-05	3512-05	Communication and Computer Engineering Assistant
0131-14	New	Communication and Information System
0131-13	New	Communication and Information Technician
2514-05	2514-05	Communication Programmer
3512-07	3512-07	Communications Assistant (ICT)
2523-13	2511-01	Communications Computer Analyst
1222-03	1222-03	Communications Manager
3522-03	3522-03	Communications Technician
1613-03	1613-03	Community Aged Care Coordinator
1614-03	1614-03	Community Centre Manager
4419-10	3611-01	Community Development Assistant Grade S19
2825-01	2825-01	Community Development Officer Grade S41
3611-17	3611-19	Community Development Worker
3253-01	3253-01	Community Health Aide
1612-08	1612-08	Community Health Care Coordinator
3253-02	3253-02	Community Health Promoter
3253-03	3253-03	Community Health Worker
3253-05	3222-01	Community Nurse Grade U19
3611-18	3611-20	Community Service Worker
5162-02	5162-02	Companion
5322-07	New	Companion, Aged Care
5162-03	5162-03	Companion, Social
2411-16	2411-20	Company Accountant
1121-06	1121-04	Company Director
3343-14	3343-14	Company Secretary
3343-07	3343-07	Company Secretary (Public Sector)
1212-10	1212-09	Compensation and Benefits Manager
2846-05	2846-05	Compere
2146-29	New	Completions Engineer
2431-13	New	Compliance Analyst
1214-08	New	Compliance Manager
2431-11	New	Compliance Officer
7321-01	7321-02	Compositor
2541-10	New	Compositor/Composite Artist
3122-05	3122-05	Compounding Supervisor
3132-03	3132-03	Compressor Gas Operator
3132-02	3132-02	Compressor Operator
2522-40	New	Computer and Systems Administrator
2152-04	2152-06	Computer Applications Engineer
3512-06	3512-06	Computer Assistant
2521-05	2521-05	Computer Auditor
3511-16	3511-16	Computer Console Operator
2511-03	2511-05	Computer Consultant
4132-04	4132-06	Computer Data Entry Clerk
2152-07	2152-09	Computer Engineer
2152-08	2152-11	Computer Engineer, Hardware
2512-33	New	Computer Engineer, Software
3511-10	3511-10	Computer Engineering Assistant
7422-07	7422-07	Computer Equipment Fitter
2514-28	2514-28	Computer Games Programmer
2542-20	New	Computer Graphics (CG) Artist
2542-16	2166-03	Computer Graphics and Sound Artist
3512-04	3512-04	Computer Help Desk Operator
3512-01	3512-01	Computer Help Desk Technician
2514-33	New	Computer Infrastructure Specialist
3513-01	3513-01	Computer Network Technician
3511-18	3511-18	Computer Operator
3511-07	3511-07	Computer Peripheral Equipment Console Technician

MASCO 2020	MASCO 2013	JOB TITLE
3511-08	3511-08	Computer Peripheral Equipment High-Speed Printer Technician
3511-20	3511-20	Computer Peripheral Equipment Operator
3511-06	3511-06	Computer Peripheral Equipment Technician
2514-01	2514-01	Computer Programmer
3511-34	New	Computer Programmer Grade 19
3512-09	3512-09	Computer Programming Assistant
2511-10	2511-12	Computer Scientist
1511-21	1511-18	Computer Security Manager
1511-10	1511-06	Computer Services Manager
2541-27	New	Computer Specialist
2522-14	2522-18	Computer Support Engineer
2522-10	2522-14	Computer Systems Administrator
2512-44	New	Computer Systems Executive
3511-33	3512-13	Computer Systems Analysis Assistant
2511-02	2511-04	Computer Systems Analyst
2511-08	2511-10	Computer Systems Designer
2512-45	2152-13	Computer Systems Engineer
2511-51	New	Computer Systems Integrated Analyst
3511-05	3511-05	Computer Technician
3511-01	3511-01	Computer Technician Grade FT19
2393-02	2393-02	Computer Trainer
3512-10	3512-10	Computer User Services Assistant
2542-09	New	Concept Artist
4224-14	4224-14	Concierge
2113-36	2113-39	Condensation Specialist
6111-13	6111-13	Conductor, Field and Factory Oil Palm Plantation
6111-12	6111-12	Conductor, Field and Factory Rubber Plantation
7512-03	7512-03	Confectionary Maker
3332-05	3332-05	Conference and Event Organizer
3332-07	3332-07	Conference Planner
4111-13	4111-13	Confidential Clerk
4121-08	4121-11	Confidential Secretary
3633-02	3633-02	Conservation Assistant Grade S19
2133-18	2133-19	Conservation Officer
2133-19	2133-20	Conservation Scientist
2132-02	2132-02	Conservator of Forests Grade G41
2183-04	New	Construction Contract Executive
1323-03	1323-03	Construction Contract Manager
1323-07	1323-07	Construction Duty Manager
2142-40	New	Construction Engineer
1323-12	New	Construction Engineering Director
1323-13	New	Construction Engineering Manager
2183-01	2183-01	Construction Executive
2142-35	New	Construction Inspection Engineer
7233-07	7233-07	Construction Machinery Mechanic
7233-08	7233-08	Construction Machinery Repairer
1323-01	1323-01	Construction Manager
2142-51	New	Construction Materials Engineer
1323-04	1323-04	Construction Operation Manager
2142-50	New	Construction Process Engineer
1323-08	1323-08	Construction Project Builder
2142-49	New	Construction Project Engineer
2183-02	2183-02	Construction Project Executive
1323-05	1323-05	Construction Project Manager
2183-03	2183-03	Construction Site Executive
1323-06	1323-06	Construction Site Manager
3123-03	3123-03	Construction Supervisor
3112-15	New	Construction Technician

MASCO 2020	MASCO 2013	JOB TITLE
7111-07	New	Construction Worker
9312-08	New	Construction Worker (Oil and Gas)
3343-15	3343-15	Consular Officials
1112-27	1112-28	Consul-General
3322-22	New	Consultant, Sales: Manufacturing
1222-07	1222-07	Contact Centre Manager
5244-02	5244-02	Contact Centre Personnel
1222-10	New	Contact Centre Team Leader Manager
3254-02	3254-02	Contact Lens Optician
2424-07	New	Continuous Improvement Coach
2847-02	2847-02	Contortionist
1323-20	New	Contractor Construction
4323-19	4323-19	Control Clerk, Air Transport Service
4323-05	4323-05	Control Clerk, Railway Service
4323-11	4323-11	Control Clerk, Road Transport Services
4323-25	4323-25	Control Clerk, Sea Transport Services
4323-04	4323-04	Control Clerk, Train
2919-01	New	Control Room Officer
4415-06	4415-07	Controller, Document
3134-26	3139-04	Controlman
3134-03	3134-03	Controlman (Petroleum Refining)
8121-11	8121-11	Converter Blowing Operator, Steel Converting
3411-03	3411-07	Conveyancing Clerk
5121-01	5121-04	Cook
5121-09	New	Cook Grade K1
5121-04	5121-07	Cook, Food Canning & Preserving
5121-02	5121-05	Cook, Hotels and Catering Services
5121-03	5121-06	Cook, Private Service
5121-08	New	Cook, Ship
8131-17	8131-17	Cooker, Chemical Processes
8131-10	8131-10	Cooking Equipment Operator, Chemical Processes
7514-06	7514-06	Cooking Oil Extracter
4415-07	4415-08	Coordinator, Document
5223-11	4419-15	Coordinator, Sales
4323-29	4323-29	Coordinator, Shipping
7213-02	7213-04	Coppersmith
2832-06	2832-10	Copy Editor
2831-11	2831-11	Copywriter
7211-08	7211-09	Core Checker, Foundry
2153-17	New	Core Network Service Assurance Engineer
7211-06	7211-07	Coremaker
8221-45	8221-45	Coremaker, Foundry Machine
7211-07	7211-08	Coremaker, Metal
2619-07	2619-08	Coroner
5412-08	New	Corporal, Police
2432-03	2432-04	Corporate Affairs Executive
2432-08	2432-09	Corporate Communication Executive
2432-19	New	Corporate Executive
2412-03	2412-05	Corporate Financial Adviser
1213-03	1213-03	Corporate Planning Manager
1215-05	1219-05	Corporate Services Manager
1624-06	1624-06	Correctional Service Manager (Archive)
3343-18	3343-18	Correspondence Assistant
4111-14	4111-14	Correspondence Clerk
2145-22	New	Corrosion Engineer
2111-26	2111-26	Cosmologist
2411-07	2411-11	Cost Accountant

MASCO 2020	MASCO 2013	JOB TITLE
4311-20	4311-21	Cost Clerk
4311-22	4311-24	Cost Computing Clerk
2411-18	2411-23	Cost Controller
2411-39	New	Cost Estimator
2141-15	2141-15	Cost Evaluation Engineer
4311-24	4311-26	Costing Assistant
3312-07	3312-07	Costing Executive
2163-08	2163-08	Costume Designer
2825-03	2825-04	Counselor
5211-04	5211-04	Counter Sales Promoter
8312-05	8312-05	Coupler, Railway Yard
2619-08	2619-09	Court Receiver and Liquidator
2832-13	2832-17	Court Reporter
7126-11	New	Craftman, Water Boring
7319-02	7319-02	Craftsman
3154-08	New	Crane Technician
7224-08	7224-08	Crankshaft Grinder
3119-44	3139-05	Crankshaft Grinding Technician
8161-18	8161-18	Cream Separator, Dairy
2542-23	New	Creative Artist
2543-08	2166-18	Creative Designer
1511-28	New	Creative Multimedia Manager
2543-17	New	Creative Team Leader
3312-08	New	Credit Analyst
2413-20	New	Credit and Lending Product Developer
4311-16	4311-17	Credit Clerk
4311-17	4311-18	Credit Control Assistant
4311-15	4311-16	Credit Control Clerk
3312-03	3312-03	Credit Control Executive
1211-07	1211-07	Credit Manager
3312-09	New	Credit Officer
2413-19	New	Credit Risk Management
3312-10	New	Credit Risk Officer
3312-04	3312-04	Credit Supervisor
1616-05	1616-05	Credit Union Manager
8351-11	8351-11	Crew, Ferry
8351-10	8351-10	Crew, Ship
6222-06	6222-06	Crewman
2822-06	2822-08	Criminologist
2831-08	2831-08	Critic
7621-23	7621-24	Crocheter, Hand
9211-01	New	Crop Farm Labourer
9211-02	9211-03	Crop Farm Labourer, Nuts
9211-03	9211-04	Crop Farm Labourer, Paddy
9211-13	9211-15	Crop Farm Labourer, Palm Tree
9211-04	9211-05	Crop Farm Labourer, Spice
9211-06	9211-08	Crop Farm Labourer, Sugarcane
9211-08	9211-10	Crop Farm Labourer, Tapioca
9211-07	9211-09	Crop Farm Labourer, Tobacco
9211-05	9211-06	Crop Farm Labourer, Vegetables
2133-03	2133-03	Crop Research Scientist
3142-02	3142-05	Crop Research Technician
5419-16	5419-17	Crossing Guard
4212-03	4212-03	Croupier
8131-21	8131-21	Crude Oil Treating Equipment Operator
1621-11	1621-11	Cruise Manager
8112-13	8112-13	Crusher Operator (Mineral or Stone Processing)

MASCO 2020	MASCO 2013	JOB TITLE
8131-06	8131-06	Crushing Operator, Chemical Processes
2144-06	2144-08	Cryogenic Engineer
6115-08	New	Cucumber Grower
5121-10	New	Culinary Assistant
1624-04	1624-04	Cultural Manager
3634-05	3639-03	Cultural Officer Grade B19
3634-27	New	Cultural Officer Grade B21
3634-28	New	Cultural Officer Grade B25
3634-29	New	Cultural Officer Grade B31
3634-30	New	Cultural Officer Grade B37
2849-01	2844-01	Cultural Officer Grade B41
2849-02	New	Cultural Officer Grade B43
2849-03	New	Cultural Officer Grade B47
2849-04	New	Cultural Officer Grade B51
2849-05	New	Cultural Officer Grade B53
3231-06	3231-06	Cupping Therapist
2811-04	2811-06	Curator
2811-02	2811-02	Curator Grade S41
7516-06	7516-06	Curer, Tobacco
2391-10	2391-10	Curriculum Coordinator
2391-01	2391-01	Curriculum Developer
3711-02	3711-02	Custom and Border Inspector
3711-01	3711-01	Custom Inspector
2432-14	2432-15	Customer Care Coordinator
4222-07	4222-08	Customer Contact Centre Information Clerk
5244-01	5244-01	Customer Contact Centre Salesperson
3512-11	3512-11	Customer Help Desk Officer
2149-12	New	Customer Quality Engineer
2432-15	2432-16	Customer Relations Executive
1222-12	New	Customer Relationship Manager
4222-05	4222-05	Customer Service Assistant
2432-06	2432-07	Customer Service Executive
1222-06	1222-06	Customer Service Manager
2432-13	2432-14	Customer Service Officer
4225-06	New	Customer Service Officer Grade 14
4225-02	4225-02	Customer Service Officer Grade N19
4222-03	4222-03	Customer Service Supervisor
2434-12	New	Customer Support Engineer (Information Technology)
2434-11	New	Customer Support Officer (Information Technology)
2434-05	2434-05	Customer Support Representative
4225-03	4225-03	Customer-Complaints Clerk
7113-16	New	Cutter and Finisher, Stone
7323-07	7323-07	Cutter Operator
7622-04	7622-04	Cutter, Garment
7622-08	7622-08	Cutter, Gloves
7113-10	7113-11	Cutter, Granite
7622-09	7622-09	Cutter, Mattres
8171-06	8171-06	Cutter, Paper Pulp
7622-06	7622-06	Cutter, Sail
7113-03	7113-04	Cutter, Stone
7622-05	7622-05	Cutter, Tent
7622-07	7622-07	Cutter, Umbrella
8172-08	8172-08	Cutter, Veneer
7122-05	7122-05	Cutter-Setter, Mosaic
7224-02	7224-02	Cutting Instruments Sharpener
8111-05	8111-05	Cutting Machine Operator, Mine
3122-07	3122-07	Cutting Supervisor
3119-20	3119-28	Cutting Technician

MASCO 2020	MASCO 2013	JOB TITLE
2531-34	New	Cyber Risk Analyst
2531-24	New	Cyber Threat Investigator
2531-30	New	Cybersecurity Analyst
2531-16	New	Cybersecurity Architect
2531-26	New	Cybersecurity Consultant
2531-27	New	Cybersecurity Engineer
2531-02	New	Cybersecurity Executive
2531-17	New	Cybersecurity Specialist
3134-14	3134-14	Cylinder Filler & Tester (Compressed & Liquefied Gases)
2131-17	2131-18	Cystologist
2131-19	2131-20	Cystologist, Animal
2131-18	2131-19	Cystologist, Plant
3212-08	3212-09	Cytology Technician
		D
4111-24	New	Daily Part-Time Worker (Awam)
3142-10	3142-13	Dairy Technician
2843-05	2843-06	Dance Arranger
2843-04	2843-05	Dance Director
2843-06	2843-07	Dance Instructor
2353-02	2353-02	Dance Teacher
2843-01	2843-02	Dancer
2843-02	2843-03	Dancer, Night Club
3257-21	3257-21	Dangerous Goods Inspector
3257-22	New	Dangerous Waste Inspector
2524-03	New	Data Analyst
7422-06	7422-06	Data and Telecommunications Cabler
2524-06	New	Data Architect
3512-14	New	Data Centre Assistant
2521-18	New	Data Centre Specialist
3512-13	New	Data Centre Supervisor
4132-09	New	Data Entry Clerk
4132-05	4132-08	Data Entry Operator
3341-02	3341-02	Data Entry Supervisor
2524-05	New	Data Miner
2524-09	New	Data Mining Analyst
2524-04	New	Data Modeller
2153-13	New	Data Network Engineer
1511-13	1511-10	Data Operations Manager
2524-08	New	Data Predictive Analyst
1511-11	1511-07	Data Processing Manager
2524-01	New	Data Scientist
2531-14	New	Data Security Specialist
2524-14	New	Data Steward
2512-31	New	Data Visualization Developer
2521-12	New	Data Warehouse Specialist
2521-03	2521-03	Database Administrator
2521-02	2521-02	Database Analyst
2514-32	New	Database Application Specialist
2521-01	2521-01	Database Architect
3512-08	3512-08	Database Assistant
2521-04	2521-04	Database Designer
1511-20	1511-17	Database Manager
2514-06	2514-06	Database Programmer
2521-13	New	Database Specialist
1421-11	1421-14	Dealer
1615-06	1615-06	Dean
1615-07	1615-07	Dean of Faculty

MASCO 2020	MASCO 2013	JOB TITLE
2413-07	New	Debt Analyst
4214-04	4214-04	Debt Collector
2512-32	New	Debug Software Engineer
3113-15	New	Debug Technician
8351-05	8351-05	Deckhand (Ship, Barge and Boat)
7316-10	7316-10	Decorative Painter
2524-12	New	Deep Learning Engineer
8161-58	8161-58	Dehydrator, Foodstuffs
4321-05	4321-05	Delivery and Receiving Clerk
9621-10	9621-13	Delivery Assistant
3122-33	New	Delivery Supervisor
1113-02	1113-02	Demang
3641-09	3641-12	Demi Chef
2121-09	2121-22	Demographer
7119-02	New	Demolition Worker
5242-01	5242-01	Demonstrator
5321-06	5321-06	Dental Aide
3251-05	New	Dental Assistant
3251-06	New	Dental Hygienist
2311-32	New	Dental Lecturer Grade DUG51
2311-05	New	Dental Lecturer Grade DUG51P
2311-33	New	Dental Lecturer Grade DUG53
2311-40	New	Dental Lecturer Grade DUG55
2311-41	New	Dental Lecturer Grade Khas C
3251-03	3251-04	Dental Nurse
0131-47	3251-04	Dental Nurse
0111-02	0111-02	Dental Officer
2261-01	2261-01	Dental Officer Grade UG41
2261-14	2261-16	Dental Practitioner
7311-05	7311-05	Dental Prosthesis Maker
7311-13	7311-13	Dental Prosthesis Repairer
4224-03	4224-03	Dental Receptionist
3251-04	3251-05	Dental School Nurse
2261-15	2261-17	Dental Surgeon
3251-01	3251-02	Dental Surgery Assistant Grade U19
3214-01	3214-01	Dental Technician
0131-46	New	Dental Technologist
3214-05	2261-21	Dental Technologist Grade U29
3251-07	New	Dental Therapist Grade U29
2261-02	2261-04	Dentist
2261-11	2261-13	Dentist, Oral Surgery
2261-05	2261-07	Dentist, Orthodontistry
2261-03	2261-05	Dentist, Pedodontistry
2261-09	2261-11	Dentist, Periodontistry
2261-07	2261-09	Dentist, Prosthodontistry
3214-02	3214-02	Denturist
1111-09	1111-09	Deputy Chief Minister
1112-42	New	Deputy Commissioner of Police
1121-07	1121-05	Deputy Executive Director
1112-41	New	Deputy Inspector General of Police
1111-04	1111-04	Deputy Minister
1111-13	1111-13	Deputy Presidents of the Senate
1111-02	1111-02	Deputy Prime Minister
1112-37	New	Deputy Secretary-General, Government Administration
1111-16	1111-16	Deputy Speaker of the House Representatives
1112-21	New	Deputy State Secretary of Government
2212-33	2212-33	Dermatologist
8113-11	8113-11	Derrick Man

MASCO 2020	MASCO 2013	JOB TITLE
8113-12	8113-12	Derrick Operator
2543-15	2166-19	Design Architect
2512-04	2511-59	Design Engineer
2511-44	2511-59	Design Engineer (Information Technology)
1321-33	1619-02	Design Manager
2543-04	2166-06	Designer
2541-15	2166-08	Designer Artist
3632-01	3632-01	Designer Grade B19
3632-24	New	Designer Grade B21
3632-25	New	Designer Grade B25
3632-26	New	Designer Grade B29
3632-27	New	Designer Grade B31
3632-28	New	Designer Grade B37
2166-01	2166-01	Designer Grade B41
2166-03	New	Designer Grade B43
2166-04	New	Designer Grade B47
2166-05	New	Designer Grade B51
2166-06	New	Designer Grade B53
2541-19	New	Desktop Publishing Artist (Animation)
7321-04	7321-04	Desktop Publishing Equipment Worker
8321-02	8321-02	Despatch
0131-27	New	Destruction Technician
3134-04	3134-04	Desulphuriser Operator, Petroleum Refining
7632-04	7632-04	Detonator
7324-06	7324-06	Developer, Film Color and Black and White
7324-07	7324-07	Developer, Film X-Ray
8132-24	8132-24	Developing Machine Operator - Photography
2531-29	New	DevOps Engineer
3211-04	3211-04	Diagnostic Medical Radiographer
2146-05	2146-05	Diamond Mining Engineer
2144-09	2144-12	Diesel Engineer
7231-15	7231-17	Diesel Fitter (Road Transport)
2265-10	2265-10	Dietetic Consultant
2265-15	New	Dietetics Officer
2265-01	2265-01	Dietetics Officer Grade U41
2265-02	2265-02	Dietician
2541-16	2166-09	Digital Artist
2434-10	New	Digital Banking/Internet Technology Specialist
2543-16	New	Digital Designer
2531-03	2529-03	Digital Forensic Specialist
2152-24	2152-37	Digital Integrated Circuit Designer (IC)
2431-35	New	Digital Marketing Executive
7322-06	7322-06	Digital Press Operator
3641-06	3641-09	Dim Sum Chef
5243-01	5243-01	Direct Selling Salesperson
1121-25	1121-24	Director
1511-40	New	Director of Cybersecurity
1121-19	1121-17	Director of Organization
2844-16	2844-17	Director of Photography
1112-25	1112-26	Director of Statutory Body
1612-12	New	Director, Health Facility
1612-13	New	Director, Health Service
1612-02	1612-02	Director, Nursing
1112-16	New	Director-General of Regional Government
1112-12	1112-12	Director-General of Customs
1121-15	1121-13	Director-General of Enterprise
1112-13	1112-13	Director-General of Fire and Rescue
1112-15	1112-15	Director-General of Government Department

MASCO 2020	MASCO 2013	JOB TITLE
1112-08	1112-08	Director-General of Health
1121-17	1121-15	Director-General of Organization
1112-03	1112-03	Director-General of Public Service
1112-24	1112-25	Director-General of Statutory Body
3611-19	3611-21	Disability Services Officer
1412-09	1412-09	Discotheque Manager
3252-03	3252-03	Disease Registry Technician
2846-01	2846-01	Disk-Jockey (DJ)
4323-30	4323-30	Dispatch Clerk, (Transport Service)
4323-17	4323-17	Dispatch Clerk, Air Transport
4323-20	4323-20	Dispatch Clerk, Aircraft
4323-26	4323-26	Dispatch Clerk, Boat
4323-12	4323-12	Dispatch Clerk, Bus
4323-27	4323-27	Dispatch Clerk, Gas Pipeline
4323-28	4323-28	Dispatch Clerk, Oil Pipeline
4323-07	4323-07	Dispatch Clerk, Railway
4323-13	4323-13	Dispatch Clerk, Road Transport
4323-06	4323-06	Dispatch Clerk, Train
4323-14	4323-14	Dispatch Clerk, Truck
3131-22	New	Dispatcher, Load: Electrical (Power Station)
2262-06	2262-07	Dispensing Chemist
3254-03	3254-03	Dispensing Optician
3632-09	3632-09	Display Decorator
3632-12	3632-12	Display Designer
1222-05	1222-05	Display Manager
3131-11	3131-11	Distribution Control Operator
1324-11	1324-09	Distribution Manager
2221-04	2221-05	District Nurse
8351-21	8351-21	Dive Boatman
3623-10	3623-10	Dive Instructor
3623-12	New	Divemaster
7631-01	7631-01	Diver
0221-06	New	Diver
7631-02	7631-02	Diver, Construction
6222-05	6222-05	Diver, Oyster
6222-04	6222-04	Diver, Pearl
6341-15	New	Diver, Subsistence
3151-19	New	Dock Planner, Aircraft
3151-18	New	Dock Planning Supervisor, Aircraft
9333-02	9333-02	Docker
3115-16	3115-18	Dockmaster, Dry Dock
3115-17	3115-19	Dockmaster, Graving Dock
2211-25	New	Doctor, Medical Business Management
2211-18	New	Doctor, Skin
4415-09	New	Document Assistant, Halal Food Manufacturing
9621-12	9621-15	Document Courier
9621-07	9621-10	Document Searcher
2812-09	2812-13	Documentalist
2844-15	2844-16	Documentary Director
4415-10	New	Document Clerk, Halal Logistics Operation
2848-03	2848-03	Dog Trainer
9111-02	9111-02	Domestic Servant
5243-02	5243-02	Door to Door Salesperson
5414-17	5414-18	Doorkeeper
8111-10	8111-10	Dragline Operator (Mining)
7119-01	7119-03	Drain Layer
2142-36	New	Drainage Design Engineer

MASCO 2020	MASCO 2013	JOB TITLE
2353-03	2353-03	Drama Teacher
3118-02	3118-04	Draughting Technician
3118-03	3118-05	Draughtsperson
3118-01	3118-01	Draughtsperson (Architecture) Grade JA19
3118-27	New	Draughtsperson (Civil Engineering) Grade JA19
3118-09	3118-11	Draughtsperson, Aeronautical Engineering
3118-18	3118-20	Draughtsperson, Architectural
3118-08	3118-10	Draughtsperson, Cartographical
3118-10	3118-12	Draughtsperson, Civil Engineering
3118-04	3118-06	Draughtsperson, Die
3118-11	3118-13	Draughtsperson, Electrical Engineering
3118-12	3118-14	Draughtsperson, Electronics Engineering
3118-05	3118-07	Draughtsperson, Geological
3118-15	3118-17	Draughtsperson, Heating and Ventilation Systems Engineering
3118-06	3118-08	Draughtsperson, Illustration Technique
3118-07	3118-09	Draughtsperson, Jig & Tool
3118-16	3118-18	Draughtsperson, Lithographic
3118-13	3118-15	Draughtsperson, Marine Engineering
3118-14	3118-16	Draughtsperson, Mechanical Engineering
3118-17	3118-19	Draughtsperson, Mining
3118-19	3118-21	Draughtsperson, Structural
3118-20	3118-22	Draughtsperson, Technical
3118-21	3118-23	Draughtsperson, Topographical
8121-19	8121-19	Drawer, Metal
8121-29	8121-29	Drawer, Seamless Pipe and Tube
8121-28	8121-28	Drawer, Wire
7113-11	7113-12	Dresser, Stone
8112-08	8112-08	Dresser, Tin Ore
7621-02	7621-03	Dressmaker
8113-07	8113-07	Driller
2411-35	New	Drilling Accountants
2146-22	New	Drilling Engineer
8111-07	8111-07	Drilling Machine Operator, Quarry
3123-09	New	Drilling Suppervisor
0321-21	0321-21	Driver
8322-01	8322-01	Driver Grade H11
8322-11	New	Driver, Ambulans
9332-03	9332-03	Driver, Animal Train
9332-05	9332-05	Driver, Animal-Drawn Machinery
9332-01	9332-01	Driver, Animal-Drawn Vehicle or Machinery
8351-02	8351-02	Driver, Boat
9332-02	9332-02	Driver, Bullock-Cart
8331-01	8331-01	Driver, Bus
8322-10	8322-10	Driver, Car
8332-09	8332-09	Driver, Concrete Mixer
8342-05	8342-05	Driver, Ditch Backhoe
8332-04	8332-04	Driver, Dumper
8311-08	8311-09	Driver, Engine
8341-02	8341-02	Driver, Farm Tractor
8332-03	8332-03	Driver, Fire-Engine
8332-11	New	Driver, Halal Logistics
8332-08	8332-08	Driver, Log
8332-01	8332-01	Driver, Lorry
8321-04	8321-04	Driver, Motorized Tricycle
8322-06	8322-06	Driver, Office Manager
8322-09	8322-09	Driver, Personal
8321-03	8321-03	Driver, Rickshaw
8332-06	8332-06	Driver, Tanker

MASCO 2020	MASCO 2013	JOB TITLE
8322-04	8322-04	Driver, Taxi
8341-03	8341-03	Driver, Timber Carrier
8332-07	8332-07	Driver, Tow Truck
8331-02	8331-02	Driver, Tram
8332-05	8332-05	Driver, Truck
8322-07	8322-07	Driver, Van
8341-04	8341-04	Driver, Winch-Truck
8332-10	New	Driver/Operator, Uploader Machinery Grade H11
5165-01	5165-01	Driving Instructor
2179-01	New	Drone Pilot
7312-05	7312-05	Drum Maker
8131-09	8131-09	Dry Operator, Chemical Processes
9121-03	9121-03	Dry-Cleaner
3521-07	3521-07	Dubbing Mixer
9311-04	9311-04	Dulang Washer
9611-05	9611-05	Dustman/Woman
3119-31	New	Dyeing Technician
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2212-01	2212-01	Ear, Nose and Throat Specialist
2342-04	2342-04	Early Childhood Educator
7231-02	7231-04	Earth-Moving Equipment Mechanic
2131-51	2131-52	Ecologist
2131-52	2131-53	Ecologist, Animal
2131-53	2131-54	Ecologist, Plant
2131-54	2131-55	Ecologist, Social
3212-04	3212-05	Ecology Technician
2521-17	New	E-Commerce Database Architect
2412-05	2412-07	E-Commerce Adviser
1511-36	New	E-Commerce Application Development Manager
2524-15	New	E-Commerce Data Analyst
2521-16	New	E-Commerce Database Administrator
2434-13	New	E-Commerce Executive
2511-57	New	E-Commerce System Analyst
2519-17	New	E-Commerce System Test Engineer
2166-02	New	E-Commerce Web Designer
2514-36	New	E-Commerce Web Programmer
2513-08	New	E-Commerce Website Developer
5223-13	New	E-Commerce Sales Clerk
2821-03	2821-05	Econometrician
2821-06	2821-08	Economic Adviser
4111-26	4419-01	Economic Affairs Assistant Grade E19
2821-01	2821-01	Economic Affairs Officer Grade E41
2821-07	2821-09	Economic Analyst
2821-04	2821-06	Economist
2821-05	2821-07	Economist, Econometrician
2831-18	2831-18	Editor
1615-01	1615-01	Education Manager
2391-02	2391-02	Education Methods Specialist
2341-03	New	Education Services Assistant Officer Grade DG29
2331-05	New	Education Services Officer Grade DG41
0131-37	New	Educational Assistant
2399-02	2399-05	Educational Counsellor
2391-09	2391-09	Educational Methods Adviser
2824-05	2824-07	Educational Psychologist
2391-04	2391-04	Educational Systems Evaluator
2391-08	2391-08	Educational Systems Researcher
2541-13	New	Effects/FX Artist
1621-19	New	E-Games Manager

MASCO 2020	MASCO 2013	JOB TITLE
3621-12	New	E-Games Player
9212-07	New	Egg Cleaner
9212-05	9212-05	Egg Collector
9212-06	9212-06	Egg Sorter
8322-13	New	E-Hailing Driver
3719-06	3719-08	Electoral Officer
7413-03	7413-08	Electric Cable Jointer
1324-19	New	Electric Car Maintenance Manager
7231-22	New	Electric Car Maintenance Mechanic
3131-01	3131-01	Electric Power Load Dispatcher
3131-07	3131-07	Electric Power Plant Operator
2151-12	2151-14	Electric Power Transmission Engineer
3113-07	3113-08	Electrical and Instrument Supervisor
2151-31	New	Electrical Consultant
3113-09	3113-10	Electrical Electric Power Transmission Engineering Technician
7412-05	7412-06	Electrical Elevator Fitter
2151-35	New	Electrical Energy Auditor
2151-02	2151-04	Electrical Engineer
2151-08	2151-10	Electrical Engineer, Electric Power Distribution
2151-05	2151-07	Electrical Engineer, Electric Power Generation
2151-09	2151-11	Electrical Engineer, Electric Power Transmission
2151-10	2151-12	Electrical Engineer, Electric Traction
2151-14	2151-16	Electrical Engineer, Electromechanical Equipment
2151-06	2151-08	Electrical Engineer, High Voltage
3113-04	3113-05	Electrical Engineering Assistant
3113-10	3113-11	Electrical Engineering Estimator
3113-01	3113-02	Electrical Engineering Technician
2151-01	New	Electrical Engineering Technologist
7412-04	7412-05	Electrical Fitter
7412-20	7412-21	Electrical Generator Fitter
7412-10	7412-11	Electrical Generator Operator
3113-08	3113-09	Electrical High Voltage System Engineering Assistant
3113-14	New	Electrical High Voltage Technician
2151-13	2151-15	Electrical Illuminating Engineer
1321-04	New	Electrical Manager
7412-19	7412-20	Electrical Mechanics
7412-12	7412-13	Electrical Motors and Dynamos Fitter
7412-11	7412-12	Electrical Office-Machinery Fitter
7413-01	7413-06	Electrical Power Line Worker
2151-23	New	Electrical Process Engineer
7412-07	7412-08	Electrical Repairman, Household Appliance
2151-36	New	Electrical Superintendent
3113-06	3113-07	Electrical Supervisor
3131-02	3131-02	Electrical Switchboard Operator
2151-03	2151-05	Electrical Systems Engineer
3113-05	3113-06	Electrical Technical Assistant
3113-13	0321-06	Electrical Technician
0321-07	0321-06	Electrical Technician
2151-04	2151-06	Electrical Testing Engineer
7412-25	New	Electrical Wireman
7411-03	7411-04	Electrician
0131-26	7411-04	Electrician
7412-16	7412-17	Electrician, Aircraft
7411-01	7411-02	Electrician, Building
7411-02	7411-03	Electrician, Construction
7413-07	7413-12	Electrician, Maintenance
7412-14	7412-15	Electrician, Ship

MASCO 2020	MASCO 2013	JOB TITLE
7412-17	7412-18	Electrician, Stage and Studio
7412-15	7412-16	Electrician, Vehicle
1622-11	1622-11	Electricity, Water and Sanitation Manager
3256-08	3256-09	Electrocardiographist Equipment
2151-18	2151-20	Electrode Cylindrical Engineer
2151-19	2151-21	Electrode Polymer Engineer
3256-09	3256-10	Electroencephalographist Equipment
2151-22	2151-24	Electrolyte Engineer
0321-09	New	Electron Technician
2153-25	New	Electronic Audio Visual Technology Executive
2152-37	New	Electronic Component Design Engineer
2524-19	2511-02	Electronic Data Processing Analyst
3511-12	3511-12	Electronic Data Processing Supervisor
3511-09	3511-09	Electronic Data Processing Technician
0131-63	3114-02	Electronic Engineering Technician
7321-08	7321-09	Electronic Pre-Press Technician
2152-38	New	Electronic Structural Designer
3114-04	New	Electronics Design Technician
2152-02	2152-04	Electronics Engineer
2152-11	2152-20	Electronics Engineer, Instrumentation
2152-09	2152-18	Electronics Engineer, Semiconductors
2152-06	2152-08	Electronics Engineer, Computer Hardware Design
2152-05	2152-07	Electronics Engineer, Information Engineering
3114-02	3114-04	Electronics Engineering Estimator
3114-01	3114-02	Electronics Engineering Technician
2152-01	2152-03	Electronics Engineering Technologist
3114-06	New	Electronics Technician
8122-02	8122-02	Electroplater
3255-02	3255-02	Electrotherapist
7316-07	7316-07	Electrotyper
2848-05	New	Elephant Trainer (Mahout)
4229-02	4229-02	Eligibility Interviewer
4229-03	4229-03	Eligibility Specialist
5163-03	5163-03	Embalmer
2152-19	2152-32	Embedded System Board Designer
2151-24	New	Embedded System/ Firmware Engineer
7621-11	7621-12	Embroiderer, Hand
8152-13	New	Embroiderer, Machine
2163-17	New	Embroidery Specialist
2134-36	New	Embryologist
3258-04	3258-04	Emergency Medical Technician
3258-05	3258-05	Emergency Paramedic
3333-01	3333-01	Employment Agent
2423-07	2423-07	Employment Counselor
7316-05	7316-05	Enameller
8131-38	8131-38	Enameller, Chemical
2134-09	2134-09	Endocrinologists
2261-16	2261-18	Endodontist
1211-26	New	Energy Audit Assistant Manager
4311-32	New	Energy Audit Assistant Technician
1211-25	New	Energy Audit Manager
3313-18	New	Energy Audit Technician
2141-59	New	Energy Auditor
2141-55	New	Energy Engineer
1321-05	New	Energy Manager
5419-23	3714-01	Enforcement Assistant Grade KP19
2914-01	2914-01	Enforcement Officer Grade KP41

MASCO 2020	MASCO 2013	JOB TITLE
2263-40	New	Enforcement Officer, Halal Industry
8182-09	New	Engine Driver
8311-07	8311-08	Engine Driver, Mine
7231-16	7231-18	Engine Fitter (Motor Vehicle)
3152-05	3152-05	Engine Marin Technician
8351-19	8351-19	Engine Oiler
2542-14	New	Engine Programmer (Digital)
0321-06	0321-07	Engine Technician
2142-04	2142-10	Engineer
2142-52	New	Engineer Grade 23
2142-02	2142-03	Engineer Grade J41
2131-31	2131-32	Engineer, Genetics
3114-03	3114-05	Engineering Assistant Electronics
3112-24	New	Engineering Assistant Executive Officer
3511-23	New	Engineering Assistant, Telecommunications
3119-22	New	Engineering Assistant, Time and Motion Study
0311-03	0311-03	Engineering Branch Officer
2141-53	New	Engineering Coordinator
3112-08	3112-12	Engineering Designer
3118-23	3118-25	Engineering Illustrator
3117-10	3117-11	Engineering Mining Technician
3322-07	3322-07	Engineering Sales Agent
2141-41	2149-15	Engineering Store Executive
3119-15	3119-22	Engineering Technician (Production)
3522-02	3522-02	Engineering Technician (Telecomunications)
3119-07	3119-11	Engineering Technician, Industrial Efficiency
3119-13	3119-17	Engineering Technician, Industrial Layout
3119-11	3119-15	Engineering Technician, Planning
3119-10	3119-14	Engineering Technician, Production
3119-08	3119-12	Engineering Technician, Safety
3119-12	3119-16	Engineering Technician, Systems
3119-06	3119-10	Engineering Technician, Time and Motion Study
3119-09	3119-13	Engineering Technician, Value
3119-05	3119-09	Engineering Technician, Work Study
2144-43	New	Engineering Technologist
2144-10	2144-13	Engines Engineer
7316-02	7316-02	Engraver
7316-12	New	Engraver, Glass
7324-03	7324-03	Engraver, Printing Lithographic Stone
7324-01	7324-01	Engraver, Printing Metal Plate
2146-30	New	Enhanced Oil Recovery (EOR) Engineer
3221-03	3221-03	Enrolled Nurse
2522-25	New	Enterprise Applications Architect
1121-10	1121-08	Enterprise Chairman
2531-12	New	Enterprise Convergence Strategist
1121-09	1121-07	Enterprise Director
2514-41	2511-20	Enterprise Resource Planning (ERP) Programmer Analyst (ABAP)
2511-33	2511-47	Enterprise Resource Planning (ERP) Technical Specialist (Information Technology)
2511-32	2511-46	Enterprise Systems Specialist (Information Technology)
3141-18	3141-18	Entomological Assistant
3141-02	3141-02	Entomological Technician
2131-50	2131-51	Entomologist
2141-57	New	Environment Engineer
2133-20	2133-21	Environmental Adviser
2143-05	New	Environmental Analyst
2133-21	2133-22	Environmental Auditor
2133-22	2133-23	Environmental Consultant
2133-01	2133-01	Environmental Control Officer Grade C41

MASCO 2020	MASCO 2013	JOB TITLE
2143-01	2143-01	Environmental Engineer
2263-07	2263-07	Environmental Health Enforcement Officer
3257-24	3257-24	Environmental Health Inspector
2263-09	2263-09	Environmental Health Officer
2263-01	2263-01	Environmental Health Officer Grade U41
1621-06	1621-06	Environmental Manager
2263-10	2263-10	Environmental Officer
2143-04	2143-04	Environmental Remediation Specialist
2133-17	2133-18	Environmental Research Scientist
3257-23	3257-23	Environmental Safety and Health Technician
2263-08	2263-08	Environmental Safety and Health Technologist
3123-10	3129-02	Environmental Supervisor
1622-12	1622-12	Environmental Systems Manager
2134-32	2134-32	Epidemiologist
8189-03	8189-03	Equipment & Machine Operator
2144-35	New	Equipment Engineer
3115-48	New	Equipment Technician
2413-10	New	Equity Analyst
7111-05	7119-09	Erector
7119-03	7119-06	Erector, Billboard
7214-02	7214-02	Erector, Constructional Steel
7214-07	7214-07	Erector, Structural Metal
9511-02	9511-03	Errand boy
2831-05	2831-05	Essayist
3334-05	3334-05	Estate Agent
1311-09	1311-09	Estate Manager
2412-09	2412-11	Estate Planner
6111-22	New	Estate Supervisor
4311-21	4311-23	Estimating Clerk
7316-01	7316-01	Etcher
7324-02	7324-02	Etcher, Printing Metal Plate
2822-07	2822-09	Ethnologist
2412-14	2421-01	Evaluation Officer Grade W41
8131-28	8131-28	Evaporator Operator
5169-03	New	Event Crew
2431-41	New	Event Executive
1411-15	New	Event Hotel Manager
1222-15	New	Event Manager
7515-14	7515-14	Examiner, Paddy
8342-15	8342-15	Excavator Operator
4419-17	3712-03	Excise Assistant
2912-04	2912-05	Excise Officer
2411-41	New	Executive Account Officer
2431-24	3322-18	Executive Analyst, Market Research
3343-05	3343-05	Executive Assistant
4111-06	4111-06	Executive Assistant (Administration and Support) Grade 3
4111-08	4111-08	Executive Assistant (Clerical) Grade L11
4111-07	4111-07	Executive Assistant (Engineering) Grade 3
4312-02	4312-02	Executive Assistant (Finance) Grade 3
4311-02	4311-02	Executive Assistant (Accounting) Grade 3
4311-28	3313-04	Executive Assistant (Audit) Grade 3
4111-25	4419-05	Executive Assistant (Economic) Grade 3
3511-04	3511-04	Executive Assistant (Information Technology) Grade 3
4411-02	4411-02	Executive Assistant (Library) Grade 3
4121-04	4121-05	Executive Assistant (Secretarial) Grade 3
5419-24	3714-02	Executive Assistant Grade L11
3641-14	New	Executive Assistant, Chef
2712-09	3641-03	Executive Chef

MASCO 2020	MASCO 2013	JOB TITLE
2711-04	New	Executive Concierge Hotel
1121-05	1121-03	Executive Director
2711-10	5151-05	Executive Housekeeper
2425-13	New	Executive Officer
0211-01	0211-01	Executive Officer
2411-02	2411-02	Executive Officer (Accounting) Grade 41
2411-03	2411-05	Executive Officer (Accounting) Grade 9
2411-04	2411-07	Executive Officer (Accounting) Grade L5
2425-02	2425-02	Executive Officer (Administration) Grade 41
2425-03	2425-03	Executive Officer (Administration) Grade L5
2912-01	2912-01	Executive Officer (Appraising) Grade 41
2912-06	New	Executive Officer (Appraising) Grade 48
2411-24	2411-31	Executive Officer (Auditing) Grade 41
2411-28	2411-39	Executive Officer (Auditing) Grade 9
2411-29	2411-40	Executive Officer (Auditing) Grade L5
2142-47	2149-03	Executive Officer (Building Surveyor) Grade 41
2821-02	2821-03	Executive Officer (Economic) Grade 9
2914-02	2914-03	Executive Officer (Enforcement) Grade L5
2142-01	2142-02	Executive Officer (Engineering) Grade 41
2142-03	2142-07	Executive Officer (Engineering) Grade L5
2412-02	2412-03	Executive Officer (Finance) Grade L5
2522-02	2522-02	Executive Officer (Information Technology) Grade 41
2522-03	2522-05	Executive Officer (Information Technology) Grade 9
2522-04	2522-07	Executive Officer (Information Technology) Grade L5
2611-02	2611-08	Executive Officer (Legal) Grade 41
2611-04	2611-13	Executive Officer (Legal) Grade 9
2611-05	2611-15	Executive Officer (Legal) Grade L5
2812-02	2812-02	Executive Officer (Library) Grade 41
2812-03	2812-05	Executive Officer (Library) Grade 9
2913-03	New	Executive Officer (PERKESO) Grade 23
2824-02	2824-02	Executive Officer (Psychology) Grade 41
2916-05	2919-02	Executive Officer (Security) Grade 41
3341-25	New	Executive Officer Grade 19
3343-10	3343-10	Executive Secretary
3343-13	3343-13	Executive Secretary, Administration
3343-11	3343-11	Executive Secretary, Committee
3343-06	3343-06	Executive Secretary, Government Administration
3343-12	3343-12	Executive Secretary, Non-Government Administration
3641-15	3641-04	Executive Sous Chef
3332-01	3332-01	Exhibition and Convention Consultant
3332-02	3332-02	Exhibition and Convention Organizer
3632-15	3632-15	Exhibition Designer
1211-12	1211-12	Expenditure Manager
2524-17	New	Expert Big Data Analyst
2113-31	2113-34	Exploration Geologist
2149-01	2149-17	Explosive Ordnance Engineer
2431-18	3322-12	Export Executive
1421-07	1421-08	Export Sales Manager
2524-18	New	Extract Transform Load Developer
3117-20	New	Extractive Metallurgical Assistant
3117-02	3117-03	Extractive Metallurgical Technician
2146-15	2146-15	Extractive Technologist
8121-20	8121-20	Extruder, Metal
2212-03	2212-03	Eye Specialist
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2163-05	2163-05	Fabric Designer
8152-12	New	Fabric Repairer

MASCO 2020	MASCO 2013	JOB TITLE
2144-42	New	Fabrication Engineer
7212-10	New	Fabricator Welder
2146-35	New	Facilities (Equipment Design) Engineer
2141-31	New	Facilities Competent Engineer
2142-31	2142-37	Facilities Engineer
2142-37	New	Facilities Planning Specialists
3122-32	New	Facilities Supervisor
2149-22	2149-06	Factories and Machinery Inspector Grade J41
3341-11	3341-11	Factory Administrator
7239-05	3119-06	Factory and Machinery Inspector Assistant Grade J19
9321-12	9329-10	Factory Hand
1321-03	1321-03	Factory Manager
5113-05	5113-05	Factory Tour Guide
3612-05	3612-06	Faith Healer
2825-08	2825-09	Family Counsellor
2211-14	2211-16	Family Medical Practitioner
3611-20	3611-22	Family Service Worker
1614-05	1614-05	Family Services Manager
3115-39	New	Fan Repair Technician
2132-09	2132-13	Farm Demonstrator
9213-02	New	Farm Hand
9213-01	9213-01	Farm Labourer
7233-09	7233-09	Farm Machinery Repairer
6121-09	6121-06	Farmer
6131-02	6131-02	Farmer (Mixed Farming)
6221-12	6221-12	Farmer, Aquaculture
6122-03	6122-03	Farmer, Bird
6121-11	New	Farmer, Buffaloes
6121-14	New	Farmer, Camel
6121-10	New	Farmer, Cattle
6111-30	New	Farmer, Cereal
6122-02	6122-02	Farmer, Chicken
6111-31	New	Farmer, Cotton
6129-04	6129-07	Farmer, Crocodile
6121-21	New	Farmer, Dairy
6122-04	6122-04	Farmer, Duck
6122-10	New	Farmer, Egg Production
6221-02	6221-02	Farmer, Fishery
6221-01	New	Farmer, Fishery Livestock
6221-09	6221-09	Farmer, Gamat
6121-12	New	Farmer, Goat
6122-01	6122-01	Farmer, Goose
6123-02	New	Farmer, Honey Bees
6121-13	New	Farmer, Horse
6123-04	6123-10	Farmer, Kelulut
6129-05	6123-03	Farmer, Leech
6121-05	6121-05	Farmer, Livestock
6331-02	New	Farmer, Mixed:Subsistence
6221-07	6221-07	Farmer, Ornamental Fish
6122-07	6122-07	Farmer, Ostrich
6121-15	6121-07	Farmer, Pig
6115-10	New	Farmer, Potato
6122-06	6122-06	Farmer, Poultry
6221-08	6221-08	Farmer, Shellfish
6123-06	6123-05	Farmer, Silkworm Raising
6129-03	6129-06	Farmer, Snake
6122-11	New	Farmer, Turkey
6221-10	6221-10	Farmer, Turtle

MASCO 2020	MASCO 2013	JOB TITLE
6129-06	6123-04	Farmer, Worm
2132-07	2132-11	Farming Adviser
2163-13	New	Fashion and Garment Executive
1214-09	New	Fashion and Garment Manager
2163-03	2163-03	Fashion Designer
5241-01	5241-01	Fashion Model
9411-02	9411-02	Fast Food Cook
9411-01	9411-01	Fast Food Preparer
2611-06	2611-17	Federal Counsel Government Service
7322-07	7322-07	Feeder Operator (Printing)
2241-04	New	Feldscher
7625-03	7625-03	Fellmonger
2172-09	2172-10	Ferry Captain
8351-22	8351-22	Ferry Hand
5112-03	5112-03	Ferry/ Boat Conductor
2145-09	2145-11	Fertilizer Engineer
8131-24	8131-24	Fertilizer Plant Operator
2145-14	2145-17	Fiber Technologist
3113-12	New	Fibre Optic Cabel Splicer
3119-30	New	Fibreglass Production Technician
2831-13	2831-13	Fiction Writer
2431-25	3322-19	Field Consultant
3142-11	3142-14	Field Crop Technical Officer
4312-05	4312-05	Field Enumerator
6111-21	New	Field Farmer
3111-18	3111-20	Field Laboratory Research Conductor
1311-14	New	Field Manager, Grass
2146-53	New	Field Professional
2149-13	New	Field Service Engineer
1322-13	New	Field Service Mine Manager
2144-54	New	Field Service Representative (Mechanical)
3257-25	3257-25	Field Supervisor - Occupational Safety and Health
3341-04	3341-04	Filling Clerks Supervisor
2844-11	2844-12	Film and Video Editor
2113-01	2113-01	Film Lab Officer Grade C41
3111-03	3111-05	Film Laboratory Assistant Grade C19
8132-26	8132-26	Film/Colour Developer
7233-16	New	Filter, Machinery
4312-15	4312-15	Finance Clerk
4312-30	New	Finance Clerk Grade K1
1211-16	New	Finance Director
2412-06	2412-08	Finance Executive
1211-02	1211-01	Finance Manager
2412-01	2412-01	Finance Officer Grade W41
2412-13	New	Financial Adviser
2413-01	2413-01	Financial Analyst
1211-11	1211-11	Financial and Institution Manager
1616-01	1616-01	Financial and Insurance Branch Manager
2412-04	2412-06	Financial and Investment Adviser
4311-29	3313-08	Financial Assistant
1616-02	1616-02	Financial Branch Manager
2411-20	2411-25	Financial Controller
2412-15	New	Financial Officer
2412-08	2412-10	Financial Planner
2413-18	New	Financial Reporting Analyst
3313-03	3313-07	Financial Supervisor
2841-04	2841-04	Fine Art Engraver-Etcher
2352-01	2352-01	Fine Arts Teacher

MASCO 2020	MASCO 2013	JOB TITLE
5419-21	4132-01	Fingerprint Examiner Grade N19
4321-15	4321-15	Finished Goods Storekeeper
3122-06	3122-06	Finished Goods Supervisor
7114-06	7114-06	Finisher, Cement
7113-14	7113-15	Finisher, Stone
3122-03	3122-03	Finishing Supervisor
3719-03	3719-05	Fire and Safety Inspector
0321-19	New	Fire Brigade
0311-08	0311-08	Fire Brigade Branch Officer
5411-06	New	Fire Brigade Officer
3112-13	New	Fire Inspector
3119-16	New	Fire Investigator
3112-38	New	Fire Maintenance Leader
3112-39	New	Fire Maintenance Technician
5411-01	5411-01	Fire Officer Grade KB19
8182-07	New	Fire Operator, Railway Engine
8182-04	8182-04	Fire Operator, Ship
5411-03	5411-03	Fire Watch Officer
7112-02	7112-02	Firebrick Layer
5411-02	5411-02	Firefighter
5411-05	New	Fireman (Fire Brigade)
9624-01	9624-01	Firewood Collector
5321-12	5329-01	First-Aide Attendant
6221-20	New	Fish Cultivator
2131-38	2131-39	Fish Culturist
7511-08	7511-08	Fish Filleter
7511-07	7511-07	Fish Pickler
7511-06	7511-06	Fish Salter
2132-01	2132-01	Fisheries Officer Grade G41
6341-12	6341-07	Fisherman
6222-10	6222-10	Fisherman (Coastal Waters)
6223-02	6223-02	Fisherman (Deep sea)
6222-11	6222-11	Fisherman (Inland Waters)
6341-07	6341-07	Fisherman, Subsistence
3144-06	New	Fishery Assistant
3144-08	3144-01	Fishery Assistant Grade G19
9216-01	9216-01	Fishery Labourer
1312-01	1312-01	Fishery Manager
3144-03	3144-04	Fishery Technician
6222-09	6222-09	Fishery worker
6222-03	6222-03	Fishery Worker, Coastal
6223-01	6223-01	Fishery Worker, Deep-Sea
6222-02	6222-02	Fishery Worker, Inland Waters
6222-01	6222-01	Fishery Worker, Kellong
1312-04	1312-04	Fishing Operations Manager
5211-07	5211-07	Fishmonger
3632-29	New	Fit Out Executive
3623-11	3623-11	Fitness Instructor
7126-09	7126-12	Fitter
0131-24	New	Fitter Combustion and Pam
7421-01	7421-01	Fitter, Electronics
7422-11	7422-11	Fitter, Electronics Computer
7421-03	7421-03	Fitter, Electronics Industrial Equipment
7421-04	7421-04	Fitter, Electronics Meteorological Equipment
7422-10	7422-10	Fitter, Electronics Radar Equipment
7422-08	7422-08	Fitter, Electronics Radio Television Equipment
7422-09	7422-09	Fitter, Electronics Video and Radar Equipment
8211-17	8211-18	Fitter, Mechanical

MASCO 2020	MASCO 2013	JOB TITLE
3311-08	New	Fixed Income Trades
2142-41	New	Flag Engineer
7212-02	7212-04	Flame Cutter
2541-23	New	Flash Animator
2543-10	New	Flash Designer
2541-24	New	Flash Developer
8161-84	8161-84	Flavour Mixer
7322-08	7322-08	Flexographic Press-Operator
5111-05	5111-05	Flight Attendant
5111-09	5111-09	Flight Crew
2173-08	2171-07	Flight Engineer
0311-09	0311-09	Flight Engineer Branch Officer
2173-05	2173-06	Flight Instructor
2173-04	New	Flight Navigator
3521-17	3521-17	Flight Radio Equipment Technician
4323-24	4323-24	Float Master
3257-26	3257-26	Flood Damage Inspector
5153-08	5153-08	Floor Captain
5151-02	5151-02	Floor Hotel and Lodging Supervisor
1624-11	New	Floor Manager (Broadcasting)
5151-09	5151-10	Floor Steward, Hotel and Lodging
3142-04	3142-07	Floriculture Technician
2133-05	2133-05	Floriculturist
5211-05	5211-05	Florist
3632-20	3632-20	Flower Decorator
6113-02	6113-02	Flower Grower
8131-35	8131-35	Foam Maker, Chemical
7323-08	7323-08	Foil Stamp Operator
7323-09	7323-09	Folder Operator
2712-05	2713-06	Food and Beverage Administrator
5132-03	5132-03	Food and Beverage Barmen
2712-06	2713-07	Food and Beverage Captain
4321-18	4321-18	Food and Beverage Control Clerk
2712-07	2713-08	Food and Beverage Coordinator
2712-04	2713-05	Food and Beverage Executive
2711-03	2711-03	Food and Beverage Guest Services Executive
2712-03	2713-04	Food and Beverage Personnel
1411-11	1411-12	Food and Beverage Services Manager
5131-04	5131-04	Food and Beverage Supervisor
5131-09	5131-09	Food and Beverage Worker
5131-07	5131-07	Food and Beverage Worker, Banquet
5131-08	5131-08	Food and Beverage Worker, Room Service
2263-37	2145-15	Food and Drinks Technologist
2145-13	2145-16	Food Chemical Engineer
5246-01	5246-01	Food Counter Atendant
8161-86	8161-86	Food Grinder
1411-14	New	Food Handling Manager
3257-27	3257-27	Food Inspector
9412-08	New	Food Preparation Assistant
5121-11	New	Food Preparation Assistant Grade N19
2712-01	2713-02	Food Preparation Executive
2265-14	2713-01	Food Preparation Officer Grade C41
2265-11	2265-11	Food Processing Consultant
8161-85	8161-85	Food Processing Operator
3119-43	3139-01	Food Processing Technician
8161-94	New	Food Processing Worker
3257-44	New	Food Sanitation and Safety Inspector
2265-13	2265-13	Food Serving Dietician

MASCO 2020	MASCO 2013	JOB TITLE
9412-07	New	Food Stall Assistant
2263-38	New	Food Technologist
2263-39	New	Food Technologist, Halal Food Manufacturing
2263-30	2113-02	Food Technology Officer Grade C41
3621-04	3621-04	Footballer
3311-03	3311-03	Foreign Exchange Broker
3311-06	3311-06	Foreign Exchange Dealer
8211-02	8211-03	Foreman
7412-08	7412-09	Foreman, Electrical
7412-09	7412-10	Foreman, Maintenance
8211-16	8211-17	Foreman, Mechanical
7212-03	7212-05	Foreman, Welder
2411-38	New	Forensic Accountant
2531-25	New	Forensic Analyst (Information Technology)
2531-37	New	Forensic Investigator
3111-39	3119-21	Forensic Science Technician
5411-04	5411-04	Forest Fire Fighter
6211-01	6211-01	Forest Guard Grade G19
6211-22	3143-01	Forest Ranger Grade G19
2132-15	New	Forest Officer
6211-17	6211-18	Forester
2132-12	2132-16	Forestry Adviser
2132-11	2132-15	Forestry Conservator
3719-09	3719-11	Forestry Inspector
1311-02	1311-02	Forestry Manager
2132-10	2132-14	Forestry Officer
2133-12	2133-12	Forestry Scientist
3143-02	3143-04	Forestry Technician
6211-03	6211-04	Forestry Tree Feller
3311-07	New	Forex Trades
7634-05	7634-05	Forging Worker, Ant
7634-03	7634-03	Forging Worker, Bee
7634-04	7634-04	Forging Worker, Mosquito
8344-04	8344-04	Forklift Driver
9312-04	9312-04	Formwork Construction Worker
5161-03	5161-03	Fortune-Teller
3331-02	3331-02	Forwarding Agent
2142-38	New	Foundation Engineer
2163-15	New	Foundry Executive
3117-21	New	Foundry Technician
7211-10	New	Foundryman
7115-13	7115-15	Framer, Wood
2421-08	New	Franchise Consultant
2413-17	New	Fraud and Investigation Consultant
2413-09	New	Fraud Prevention Specialist
2849-06	New	Freelance Speaker
2145-21	2145-24	Freeze Dried Technologist
4321-30	4321-31	Freight Clerk
4321-32	4321-34	Freight Despatching Clerk
4321-33	4321-35	Freight Receiving Clerk
4321-31	4321-33	Freight Routing Clerk
4321-34	4321-36	Freight Traffic Clerk
9333-01	9333-01	Freight Worker
2711-06	2711-06	Front Desk Executive
1411-09	1411-10	Front Desk Manager
4224-06	4224-06	Front Office Assistant
4224-16	New	Front Office Assistant Supervisor
1411-10	1411-11	Front Office Manager

MASCO 2020	MASCO 2013	JOB TITLE
2432-18	New	Front Office Officer
4224-08	4224-08	Front Office Personnel
4224-05	4224-05	Front Office Receptionist
4224-07	4224-07	Front Office Supervisor
2513-09	New	Front-End Developer
7514-03	7514-03	Fruit Juice Maker
9211-23	New	Fruit Peeler
9211-11	9211-13	Fruit Picker
7514-01	7514-01	Fruit Preserver
7231-24	New	Fuel Cell Vehicle Maintenance Mechanic
3117-16	3117-17	Fuel Pump Technician
2145-05	2145-07	Fuel Technologist
2513-07	New	Full Stack Developer
7634-06	7634-06	Fumigation Operator, Service
7634-08	7634-08	Fumigation Operator, Soil
7634-07	7634-07	Fumigation Operator, Weed
7634-02	7634-02	Fumigator
1211-09	1211-09	Fund Manager
8121-01	8121-01	Furnace-Operator
8181-07	8181-07	Furnace-Operator, Annealing Glass
8121-03	8121-03	Furnace-Operator, Converting Steel
8181-06	8181-06	Furnace-Operator, Glass
8181-03	8181-03	Furnace-Operator, Glass Production
8181-13	8181-13	Furnace-Operator, Glass Tempering
8121-08	8121-08	Furnace-Operator, Metal Case-Hardening
8121-09	8121-09	Furnace-Operator, Metal Hardening
8121-12	8121-12	Furnace-Operator, Metal Heat-Treating
8121-05	8121-05	Furnace-Operator, Metal Melting
8121-06	8121-06	Furnace-Operator, Metal Melting (Blast-Furnace)
8121-07	8121-07	Furnace-Operator, Metal Reheating
8121-10	8121-10	Furnace-Operator, Non-Ferrous Refining Metal
8121-02	8121-02	Furnace-Operator, Refining Steel
3632-03	3632-03	Furniture Designer
8219-07	8219-08	Furniture Finisher, Wood
9333-11	9333-11	Furniture Mover
2141-27	2141-29	Furniture Upholstery Technologist
7621-28	7621-29	Furrier
		G
3633-04	3633-05	Gallery Technician
8122-06	8122-06	Galvaniser
2542-01	New	Game Designer (Digital)
2542-05	New	Game Director (Digital)
2514-35	New	Game Engine Programmers
2542-04	New	Game Producer (Digital)
2542-12	New	Game Programmer (Digital)
5419-02	5419-03	Game Warden
1621-12	1621-12	Gaming Manager
7231-06	7231-08	Garage Mechanic
1622-04	1622-04	Garbage Disposal System Manager
6113-01	6113-01	Gardener
8219-15	New	Garland Tier Assembler
2163-06	2163-06	Garment Designer
2146-19	2146-19	Gas Engineer
7212-09	New	Gas Pipe Welder
3134-06	3134-06	Gas Plant Operator
7212-05	7212-07	Gas Tungsten Arc Welder
2144-22	2144-25	Gas Turbine Engineer

MASCO 2020	MASCO 2013	JOB TITLE
3134-13	3134-13	Gases Liquefaction Plant Operator
8312-07	8312-07	Gateman, Railway
6341-10	6341-10	Gatherer, Coconut Sap
6341-11	6341-11	Gatherer, Honey
6341-05	6341-05	Gatherer, Seaweed
6341-03	6341-03	Gatherer, Shellfish
6341-06	6341-06	Gatherer, Wild Fruits, Herbs & Vegetables
7313-11	7313-11	Gem Polisher
7313-08	7313-08	Gem Setter
7313-07	7313-07	Gem Slicer
2823-05	New	Genealogist
4111-18	4111-19	General Administrative Assistant
1222-02	1222-02	General Affairs Manager
9621-19	New	General Assistant
9621-01	9621-03	General Assistant (Notice Boy) Grade 1
9621-03	9621-05	General Assistant (Support) Grade 1
4223-06	New	General Assistant (Telephone Operator)
4131-04	4131-09	General Assistant Typist
8132-01	8132-01	General Assistant, Photographic
0311-01	0311-01	General Duty Pilot Branch Officer
3321-08	New	General Insurance Underwriter
3312-06	3312-06	General Ledger Officer
1121-23	1121-21	General Manager
2211-15	2211-17	General Medical Practitioner
4111-09	4111-09	General Office Clerk
0121-07	0121-07	General Services Corps Officer
9622-03	New	General Worker
8322-03	8322-03	General Worker (Driver) Grade 1
9622-01	9622-03	General Worker (General Services) Grade 1
5414-04	5414-04	General Worker (Security Control) Grade 1
5414-05	5414-05	General Worker (Security) Grade 1
8322-02	8322-02	General Worker (Vehicle Driver) Grade 1
9622-05	New	General Worker Grade K3
3131-12	3131-12	Generating Station Operator
2131-27	2131-28	Geneticist
2131-29	2131-30	Geneticist, Animal
2131-28	2131-29	Geneticist, Plant
3212-05	3212-06	Genetics Technician
2113-28	2113-31	Geochemist
2165-12	2165-13	Geodesic Surveyor
2114-16	2114-21	Geodesist
2822-04	2822-06	Geographer
2522-38	New	Geographic Information Systems (GIS) Officer
2263-42	New	Geohazard Technical Consultant
2113-30	2113-33	Geological 2D/3D Reservoir Modeller
3111-17	3111-19	Geological Laboratory Assistant
2114-15	2114-20	Geological Oceanographer
2114-41	New	Geological Specialist
3111-16	3111-18	Geological Technician
2114-02	2114-07	Geologist
2114-03	2114-08	Geologist, Engineering
2114-11	2114-16	Geologist, Marine
2114-25	2114-30	Geologist, Micropalaeontology
2114-04	2114-09	Geologist, Mining
2114-12	2114-17	Geologist, Oceanography
2114-06	2114-11	Geologist, Oil
2114-26	2114-31	Geologist, Palaeontology
2114-07	2114-12	Geologist, Petroleum

MASCO 2020	MASCO 2013	JOB TITLE
2114-08	2114-13	Geologist, Petrology
2114-27	2114-32	Geologist, Stratigraphy
2114-20	2114-25	Geomagnetician
2121-14	New	Geomatician
2114-44	New	Geomechanic
2114-38	New	Geomodeller
2114-21	2114-26	Geomorphologies
2114-14	2114-19	Geophysical Oceanographer
2114-42	New	Geophysical Specialist
2114-01	2114-06	Geophysicist
2114-17	2114-22	Geophysicist, Geomagnetic
2114-18	2114-23	Geophysicist, Geomorphology
2114-22	2114-27	Geophysicist, Hydrology
2114-10	2114-15	Geophysicist, Oceanography
2114-19	2114-24	Geophysicist, Seismology
3111-05	3111-07	Geophysics Technician
2114-43	New	Geoscience Officer Grade C41
3111-30	New	Geoscience Technician Grade C19
2114-32	New	Geoscientist
3118-24	New	Geospatial Technician
2165-01	2165-01	Geospatialist Grade J41
2142-33	2142-39	Geotechnical Engineer
3112-12	3112-16	Geotechnical Technician
2264-09	2264-11	Geriatric Physical Therapist
7315-01	7315-02	Glass Bender
7315-02	7315-03	Glass Blower
7315-03	7315-04	Glass Cutter
7315-08	7315-09	Glass Finisher
7315-09	7315-10	Glass Frame Fabricator
7315-06	7315-07	Glass Grinder
7315-07	7315-08	Glass Lens Moulder
7315-05	7315-06	Glass Polisher
2141-17	2141-17	Glass Technologist
7125-01	7125-01	Glazier
7125-02	7125-02	Glazier, Building
7125-04	7125-04	Glazier, Leaded-Glass
7125-05	7125-05	Glazier, Patent Roofing
7125-06	7125-06	Glazier, Plate-Glass
7125-07	7125-07	Glazier, Roofing
7125-03	7125-03	Glazier, Vehicle
7313-06	7313-06	Gold Grader
7313-13	7313-13	Gold Rolling Mill Worker
7313-02	7313-02	Goldsmith
3621-09	3621-09	Golfer
9621-13	9621-16	Goods Carrier
3716-02	3716-04	Government Administration Inspector
2425-06	2425-13	Government Administrative Executive
2425-05	2425-12	Government Executive Officer
1112-11	1112-11	Governor
7515-13	7515-13	Grader , Paddy
7515-10	7515-10	Grader, Vegetable
7515-19	7515-19	Grader, Bird Nest
7515-18	7515-18	Grader, Egg
7633-01	7633-01	Grader, Fibre
7515-16	7515-16	Grader, Fish
7515-03	7515-03	Grader, Food
7515-09	7515-09	Grader, Fruit
6211-09	6211-10	Grader, Log

MASCO 2020	MASCO 2013	JOB TITLE
7515-08	7515-08	Grader, Meat
7515-12	7515-12	Grader, Oil
6111-17	6111-17	Grader, Oil Palm
7515-17	7515-17	Grader, Oil Palm Fruite
7113-05	7113-06	Grader, Stone
7516-01	7516-01	Grader, Tobacco
7611-05	New	Grader, Veneer
7611-04	7611-04	Grader, Wood
4321-37	4321-39	Grading Clerk
2331-01	2331-01	Graduate Education Services Officer Grade DG41
2331-03	2331-03	Graduate Teacher Officer
2541-14	2166-07	Graphic Artist
2543-02	2166-04	Graphic Designer
2542-17	New	Graphics Creator
2541-21	2166-21	Graphics Illustrator
2542-15	New	Graphics Programmer
9214-01	9214-01	Grass Cutter
5163-06	5163-06	Grave Digger
9313-04	9313-04	Grave-Digger
7322-09	7322-09	Gravure Press-Operator
1323-18	New	Green Builder
2161-05	New	Green Building Consultant
1323-15	New	Green Building Facilities Maintenance Assistant Manager
3112-28	New	Green Building Facilities Maintenance Assistant Technician
1323-14	New	Green Building Facilities Maintenance Manager
3112-27	New	Green Building Facilities Maintenance Technician
2163-26	New	Green Technology Design Professional
1322-08	New	Green Technology Fuel Production Manager
3117-22	New	Green Technology Fuel Production Technician
2426-15	New	Green Technology Fuel Research Technologist
3159-04	New	Green Technology Infrastructure Assistant Facilitator
2141-54	New	Green Technology Infrastructure Facilitator
3154-07	New	Green Technology Vehicle Assistant Designer
2163-25	New	Green Technology Vehicle Designer
8161-27	8161-27	Grinder, Feed
7113-07	7113-08	Grinder, Stone
5221-02	5221-02	Grocer
2173-06	New	Ground Instructor
2411-13	2411-17	Group Accountant
3622-17	3622-21	Group Exercise Instructor & Coordinator
2542-18	New	Group Lead Artist Graphic
6111-07	6111-07	Grower, Abaca
6111-29	New	Grower, Areca
6112-18	New	Grower, Aromatic
6111-06	New	Grower, Banana
6112-15	New	Grower, Berries
6112-13	New	Grower, Citrus fruit
6112-07	6112-07	Grower, Cluster Fruit
6112-02	6112-02	Grower, Coco
6111-03	6111-03	Grower, Coconut
6112-05	6112-05	Grower, Coffee
6112-08	New	Grower, Corn
6111-08	6111-08	Grower, Dragon Fruit
6111-25	New	Grower, Durian
6111-27	New	Grower, Fibre crops
6111-01	6111-01	Grower, Field Crop
6111-23	New	Grower, Fruits
6112-06	6112-06	Grower, Grape

MASCO 2020	MASCO 2013	JOB TITLE
6112-16	New	Grower, Groundnut
6112-14	New	Grower, Guava
6111-10	6111-10	Grower, Intercrop Tree
6111-34	New	Grower, Kayu Gaharu
6111-24	New	Grower, Kenaf
6112-11	New	Grower, Mango
6111-28	New	Grower, Nipa Palm
6111-04	6111-04	Grower, Oil Palm
6111-05	New	Grower, Papaya
6111-09	6111-09	Grower, Pineapple
6112-04	New	Grower, Pomegranate
6111-26	New	Grower, Rambutan
6111-11	6111-11	Grower, Rice
6112-17	New	Grower, Roselle
6111-02	6111-02	Grower, Rubber
6111-33	New	Grower, Sago (Herbs)
6112-01	6112-01	Grower, Shrub Trees
6111-35	New	Grower, Spices
6112-12	New	Grower, Star Fruit
6111-36	New	Grower, Strawberry
6112-10	New	Grower, Sugarcane
6112-03	6112-03	Grower, Tea
6111-20	6111-20	Grower, Tobacco
6111-32	New	Grower, Tropical Fruits
6112-09	New	Grower, Watermelon
5414-10	5414-10	Guard
5414-06	5414-06	Guard, Gambling Activities
5414-08	5414-08	Guard, Industrial Warehouse Department
5414-09	5414-09	Guard, Security Private
5169-02	5169-04	Guest Relations Officer
4224-09	4224-09	Guest Service Agent
4224-17	New	Guest Service Assistant
2711-05	2711-05	Guest Service Executive
2711-01	2711-01	Guest Service Officer
1411-07	1411-08	Guest-House Manager
3135-02	3135-02	Guide Setter, Metal
0131-28	New	Gunners
7222-07	7222-09	Gunsmith
2212-12	2212-12	Gynaecologist
		H
2521-15	New	Hadoop Engineer
3212-06	3212-07	Haematology Technician
5141-05	5141-05	Hair Care Specialist
5141-04	5141-04	Hair Stylist
5141-02	5141-02	Hairdresser
2263-31	New	Halal Executive
7511-10	New	Halal Checker, Slaughterhouse
1214-10	New	Halal Compliance Manager
2263-32	New	Halal Executive, Halal Food Manufacturing
2263-36	New	Halal Executive, Halal Livestock Production
2263-35	New	Halal Executive, Logistics Operation
2263-34	New	Halal Executive, Meat Processing
2263-33	New	Halal Executive, Slaughterhouse
7511-11	New	Halal Slaughterer, Slaughterhouse
7221-02	7221-03	Hammersmith
9412-02	9412-02	Hand Dish Washer
7319-05	New	Handicraft Worker
7318-04	7318-04	Handicraft Worker, Carpets

MASCO 2020	MASCO 2013	JOB TITLE
7318-05	7318-05	Handicraft Worker, Leather
7317-05	7317-06	Handicraft Worker, Reed Weaving
7317-06	7317-07	Handicraft Worker, Stone Articles
7318-06	7318-06	Handicraft Worker, Textiles
7317-02	7317-03	Handicraft Worker, Wooden Articles
9333-05	9333-05	Handler, Cargo Freight Product
9333-10	9333-10	Handler, Material
2619-09	2619-10	Handwriting Expert
9313-06	9313-06	Handyman, Building Construction
9622-04	9622-06	Handyperson
1121-12	1121-10	Harbour Manager
2172-06	2172-07	Harbour Master
2152-20	2152-33	Hardware Board Design Engineer
2152-40	New	Hardware Design Engineer
3511-21	3511-21	Hardware Technician
6221-19	New	Hatcher, Fish
6122-12	New	Hatcher-Breeder, Poultry
3144-04	3144-05	Hatchery Assistant
1311-15	New	Hatchery Manager
3144-02	3144-03	Hatchery Supervisor
3144-01	3144-02	Hatchery Technician
2182-27	New	Haulage Operation Executive
9521-03	9521-03	Hawker
5212-01	5212-01	Hawker (Food)
3257-28	3257-28	Hazardous Waste Inspector
2263-04	2263-04	Hazardous Waste Management Technologist
2712-10	3641-02	Head Chef
1615-08	1615-08	Head Faculty
1323-21	New	Head of Architect
1215-06	New	Head of Corporate Communications
1112-38	New	Head of Division/Section/Unit
1112-17	1112-17	Head of Government Department
1121-32	New	Head of Operation
1211-20	New	Head of Procurement
3122-31	New	Head of Supervisory
1113-01	1113-01	Headman Grade NP29
1615-04	1615-04	Headteacher
3231-05	3231-05	Healer
1612-11	1612-11	Health Educator
3252-05	3252-05	Health Information Clerk
3257-45	3257-45	Health Inspector
1612-03	1612-03	Health Manager
5321-01	5321-01	Health Medical Assistant Grade U11
2211-17	2211-19	Health Officer
3257-29	3257-29	Health Standards Inspector
2264-08	2264-10	Health Therapist
1212-13	New	Health, Safety, Environment & Quality Manager
2433-12	New	Healthcare Sales Representative
2212-02	2212-02	Heart Specialist
3132-06	3132-06	Heating and Ventilation Equipment Operator
2144-08	2144-11	Heating Ventilation Air-Conditioning and Refrigeration Engineer
8131-08	8131-08	Heat-Treating Plant Operator, Chemical Processes
8332-12	New	Heavy Machinery Driver
8189-04	8189-04	Heavy Machinery Operator
4214-07	4214-07	Heavy Vehicles Rental Clerk
7232-04	7232-04	Helicopter Mechanic
3151-10	3151-11	Helicopter Technician
8351-01	8351-01	Helmsman

MASCO 2020	MASCO 2013	JOB TITLE
5322-08	New	Helper, Aged Care
5121-05	5121-08	Helper, Barbeque
5322-09	New	Helper, Caring for Aged (Home)
5322-12	New	Helper, Caring for Infirm (Home)
9111-04	9111-04	Helper, Domestic
9111-05	9111-05	Helper, Housekeeper
2231-07	2231-07	Herbal Medicine Practitioner
3231-08	3231-08	Herbalist
3141-15	3141-15	Herbarium Technician
3142-12	3142-15	Herd Tester
2131-32	2131-33	Herpetologist
6211-05	6211-06	High Climber, Logging
1112-28	1112-29	High Commissioner of Government
3113-03	3113-04	High Voltage Electrical Engineering Technician
7412-03	7412-04	High Voltage Restriction Chargeman
2311-07	2311-09	Higher Learning Education Officer Grade DH29
2311-18	New	Higher Learning Education Officer Grade DH31
2311-19	New	Higher Learning Education Officer Grade DH33
2311-20	New	Higher Learning Education Officer Grade DH39
2311-06	2311-08	Higher Learning Education Officer Grade DH41
2311-21	New	Higher Learning Education Officer Grade DH43
2311-22	New	Higher Learning Education Officer Grade DH47
2311-23	New	Higher Learning Education Officer Grade DH51
2311-24	New	Higher Learning Education Officer Grade DH53
2412-12	New	High-Net-Worth Client Adviser
3511-19	3511-19	High-Speed Computer Printer Operator
5419-12	5419-13	Highway Patrol
2131-06	2131-07	Histologist
2131-07	2131-08	Histologist, Plant
3212-07	3212-08	Histology Technician
2134-20	2134-20	Histopathologist
2823-03	2823-03	Historian
3621-05	3621-05	Hockey Player
9313-01	9313-01	Hod Carrier
2821-09	2821-11	Home Economist
2231-04	2231-04	Homeopath
1411-06	1411-07	Homestay Manager
3132-11	3132-11	Hopper Operator
3623-05	3623-05	Horse Riding Instructor
2848-04	2848-04	Horse Trainer
3142-13	3142-16	Horticultural Technical Officer
1311-04	1311-04	Horticulture Manager
3142-05	3142-08	Horticulture Technician
2133-06	2133-06	Horticulturist
6113-03	6113-03	Horticulture Grower
1612-04	1612-04	Hospital Administrator
4229-01	4229-01	Hospital Admissions Clerk
3341-03	3341-03	Hospital Admitting Clerks Supervisor
5321-07	5321-07	Hospital Aide
3256-02	New	Hospital Assistant
2265-03	2265-03	Hospital Dietician
2262-05	2262-06	Hospital Pharmacist
3344-03	3344-03	Hospital Ward Secretary
2846-13	New	Host
1411-03	1411-03	Hostel Manager
1411-02	1411-02	Hostel Manager Grade N41
5153-01	5153-01	Hostel Supervisor Grade N19
5111-13	New	Hot Air Balloon Crew

MASCO 2020	MASCO 2013	JOB TITLE
2173-21	New	Hot Air Balloon Pilot
8122-04	8122-04	Hot-Dip Plater
3257-30	3257-30	Hotel And Restaurant Inspector
2711-09	New	Hotel Event Executive
4224-11	4224-11	Hotel Front Desk Clerk
2711-08	New	Hotel Management Executive
1411-01	1411-01	Hotel Manager
2711-02	2711-02	Hotel Operations Executive
4224-10	4224-10	Hotel Receptionist
5151-12	New	Hotel Steward Leader
8121-04	8121-04	Hot-Roller Operator, Steel
7111-01	7111-01	House Builder
5152-10	New	House Steward
5152-03	5152-04	House Steward, Private
5152-06	New	Housekeeper
5151-05	5151-06	Housekeeper (Hotel)
5152-08	New	Housekeeper (Private Service)
5152-01	5152-01	Housekeeper, Private
5151-08	5151-09	Housekeeping and Catering Services Supervisor
9112-08	9112-08	Housekeeping and Catering Services Workers
2711-07	New	Housekeeping Executive
1622-10	1622-10	Housekeeping Manager
1622-08	1622-08	Housekeeping Service Manager
5151-03	5151-03	Housekeeping Supervisor
5151-07	5151-08	Housekeeping Supervisor, Public Area
5152-04	5152-06	Housekeeping Worker, Private
9112-06	9112-06	Housekeeping Worker, Public Area
5152-09	New	Housekeeping Worker, Room
9111-03	9111-03	Housemaid
1614-06	1614-06	Housing Services Manager
2171-04	2171-04	Hovercraft Architect
2172-03	2172-04	Hovercraft Pilot
2142-42	New	Hull and Structural Engineer
2423-16	2423-16	Human Resource Analyst
4416-10	4416-11	Human Resource Assistant
2423-18	2423-18	Human Resource Consultant
2423-17	2423-17	Human Resource Coordinator
2423-03	2423-03	Human Resource Executive
2423-12	2423-12	Human Resource Expert
1212-02	1212-01	Human Resource Manager
2423-23	New	Human Resource Officer
3341-09	3341-09	Human Resource Supervisor
2831-06	2831-06	Humorist
6224-01	6224-01	Hunter
6341-16	New	Hunter, Subsistence
2144-31	2144-34	Hydraulic Design Engineer
3115-21	3115-23	Hydraulic Hose Technician
2146-41	New	Hydraulics Engineer
7413-12	New	Hydro Installation and Maintenance Installer
2163-24	New	Hydro Technology Designer
2131-13	2131-14	Hydrobiologist
2111-09	2111-09	Hydrodynamics
3131-08	3131-08	Hydroelectric Power Plant Operator
3131-03	3131-03	Hydroelectric Station Operator
2114-23	2114-28	Hydrogeologist
2165-13	2165-14	Hydrographic Surveyor
2114-24	2114-29	Hydrologist
6113-04	6113-04	Hydroponics Grower

MASCO 2020	MASCO 2013	JOB TITLE
3255-04	3255-04	Hydrotherapist
3115-31	New	Hygiene Technician 1
3115-52	New	Hygiene Technician 2
2512-15	2512-15	Hypertext Preprocessor (PHP) Web Developer
2514-26	2514-26	Hypertext Preprocessor (PHP) Programmer
		I
7111-09	New	IBS Lightweight Panel Installer (Industrialized Building System)
7111-08	New	IBS Precast Concrete Installer (Industrialized Building System)
2131-33	2131-34	Ichthyologist
1511-14	1511-11	ICT Development Manager
2541-17	2166-11	Illustrator
0131-54	New	Imagery Intelligence
2826-04	2826-05	Imam
2911-03	New	Immigration Consultant
5415-01	5415-01	Immigration Officer Grade KP19
2911-02	2911-02	Immigration Superintendent Grade KP41
2131-02	2131-03	Immunologist
2845-02	New	Impersonator
4321-36	4321-38	Import-Export Clerk
2522-18	2522-23	Inbound Technical Support Representative (Information Technology)
2531-21	New	Incident Responder (Information Technology)
1622-24	New	Incineration Plant Assistant Manager
1622-23	New	Incineration Plant Manager
3132-17	New	Incineration Plant Supervisor
3132-12	3132-12	Incinerator Operator
3132-04	3132-04	Incinerator Plant Operator
4132-01	4132-02	Index Clerk
2263-25	New	Indoor Air Quality (IAQ) Assessor
2144-57	New	Industrial Automation Engineer
2141-13	2141-13	Industrial Efficiency Engineer
2152-27	New	Industrial Electronic Engineer
2141-03	2141-03	Industrial Engineer
2149-07	2149-23	Industrial Health and Safety Engineer
2149-08	2149-24	Industrial Health Engineer
2263-13	2263-13	Industrial Health Officer
3257-31	3257-31	Industrial Hygiene Inspector
3112-01	3112-04	Industrial Instrument Technician
5419-05	5419-06	Industrial Investigator
2141-05	2141-05	Industrial Layout Engineer
7233-14	New	Industrial Machinist
3119-25	New	Industrial Maintenance Technician
2221-20	2221-22	Industrial Nurse
2262-03	2262-04	Industrial Pharmacist
3631-13	3631-14	Industrial Photographer
2163-02	2163-02	Industrial Products Designer
4419-08	3719-01	Industrial Relation Assistant Grade S19
2432-04	2432-05	Industrial Relations Executive
1212-04	1212-03	Industrial Relations Manager
2916-03	2919-08	Industrial Relations Officer Grade S41
3122-34	3139-07	Industrial Robot Controller
2149-06	2149-22	Industrial Safety Engineer
2263-14	2263-14	Industrial Safety Officer - Occupational Safety and Health
3119-23	New	Industrial Technician
3257-32	3257-32	Industrial Waste Control Inspector
2141-60	New	Industry 4.0 Technologist
2423-14	2423-14	Industry Educator
2211-26	New	Infection Control Officer

MASCO 2020	MASCO 2013	JOB TITLE
9629-02	9629-03	Inflatable Worker
2511-55	New	Information and Communication Technology (ICT) Specialist
2531-01	2529-01	Information and Communication Technology Security Executive
4222-01	4222-01	Information Assistant Grade S19
4225-05	4225-06	Information Clerk
2522-07	New	Information Communications System Officer
2432-01	2432-01	Information Officer Grade S41
2522-33	2812-16	Information Scientist, Business Services
2522-32	2812-15	Information Scientist, Technical Information
2531-18	New	Information Security Analyst
2531-20	New	Information Security Officer
2512-43	New	Information System Executive
2522-05	2522-09	Information System Officer
1511-15	1511-12	Information Systems Director
2522-21	New	Information Systems Maintenance Engineer
1511-06	1511-04	Information Systems Manager
3511-14	3511-14	Information Systems Technician
2511-39	2511-53	Information Technology Application Management Analyst (Siebel)
2522-24	New	Information Technology Architect
3511-15	3511-15	Information Technology Assistant
2519-16	New	Information Technology Auditor
2511-06	2511-08	Information Technology Business Analyst
1511-32	New	Information Technology Business Development Manager
4132-07	4132-10	Information Technology Clerk
2511-05	2511-07	Information Technology Consultant
2511-14	2511-23	Information Technology Consultant (.Net)
2511-19	New	Information Technology Consultant (Java)
2522-34	2152-15	Information Technology Engineer
2522-11	2522-15	Information Technology Executive
2512-17	2512-17	Information Technology Executive RPG (Role-Playing Game)
4132-03	4132-05	Information Technology General Assistant (Data-Processing Machine Operator)
1511-37	New	Information Technology Governance Manager
1511-23	1511-20	Information Technology Infrastructure Manager
2522-31	New	Information Technology Infrastructure Specialists
1511-07	1511-05	Information Technology Manager
2522-01	2522-01	Information Technology Officer Grade F41
2434-06	New	Information Technology Product Engineer
1511-24	1511-21	Information Technology Programme Manager
2514-04	2514-04	Information Technology Programmer
2522-13	New	Information Technology Project Administrator
2522-12	New	Information Technology Project Coordinator
1511-22	1511-19	Information Technology Project Manager
2511-07	2511-09	Information Technology Researcher
1511-26	1511-23	Information Technology Resource Manager
2434-04	2434-04	Information Technology Sales Engineer
1511-25	1511-22	Information Technology Sales Manager
2531-40	2511-18	Information Technology Security Analyst
2511-15	2511-24	Information Technology Specialist (.Net)
2511-24	2511-34	Information Technology Specialist (Lotus Notes)
2511-34	New	Information Technology Specialist SAP (Systems Applications and Products)
2511-20	New	Information Technology Specialist(Java)
2511-40	2511-54	Information Technology Specialist(Siebel)
1511-34	New	Information Technology Support Manager
2522-08	2522-12	Information Technology Support Officer
7422-05	7422-05	Information Technology Support Worker
2511-22	2511-32	Information Technology System Analyst (JD Edwards-JDE)
2512-19	2512-19	Information Technology System Architect
2511-04	New	Information Technology Systems Consultant

MASCO 2020	MASCO 2013	JOB TITLE
2511-09	2511-11	Information Technology Systems Designer
2512-20	2512-20	Information Technology Technical Architect
2522-15	New	Information Technology Technical Specialist
3512-03	3512-03	Information Technology Technician
1215-04	1219-04	Infrastructure Manager
7612-10	7612-11	Inlayer, Marquetry
4225-04	4225-05	Inquiries Clerk
3119-35	New	Insect Control Technician
6122-09	6129-01	Inseminator, Poultry
4323-31	New	Inspector Clerical Railway Transport Service
6111-14	6111-14	Inspector Quality, Plantation
4323-10	4323-10	Inspector, Bus Services
2149-10	New	Inspector, Factory and Machinery
4323-09	4323-09	Inspector, Road Transport Services
1112-07	1112-07	Inspector-General of Police
7121-07	7121-08	Installer, Awning
7121-08	7121-09	Installer, Ceiling
7122-01	7122-01	Installer, Tile
7413-04	7413-09	Installer, Underground Cable
7413-05	7413-10	Installer, Underwater Cable
3622-14	3622-18	Instructor and Other Sports Officials Coach (Indoor)
3622-15	3622-19	Instructor and Other Sports Officials Coach (Outdoor)
2269-02	2211-02	Instructor Grade U41
3622-21	New	Instructor, General
2264-12	New	Instructor, Physiotherapist
7317-10	7317-11	Instructor, Spinner
7621-25	7621-26	Instructor, Weaving
0321-08	0321-04	Instrument Technician
2842-03	2842-03	Instrumentalist
2144-37	New	Instrumentation Engineer
7124-09	7124-09	Insulation Installer
7124-01	7124-01	Insulation Worker
7124-05	7124-05	Insulation Worker, Acoustical
7124-07	7124-07	Insulation Worker, Air-Conditioning Equipment
7124-03	7124-03	Insulation Worker, Boiler
7124-02	7124-02	Insulation Worker, Building
7124-04	7124-04	Insulation Worker, Pipe
7124-06	7124-06	Insulation Worker, Refrigeration Equipment
7124-08	7124-08	Insulation Worker, Sound-Proofing
3315-06	3315-07	Insurance Adjuster
4312-11	4312-11	Insurance Adjustment Assistant
1616-06	1616-06	Insurance Agency Manager
3321-01	3321-01	Insurance Agent
3315-07	3315-08	Insurance Assessor
1616-03	1616-03	Insurance Branch Manager
3321-02	3321-02	Insurance Broker
2619-11	2619-12	Insurance Claims Arbitrator
4312-14	4312-14	Insurance Claims Assistant
4312-18	4312-19	Insurance Clerk
3321-04	3321-04	Insurance Consultant
1211-08	1211-08	Insurance Manager
4312-13	4312-13	Insurance Policy Assistant
3321-05	3321-05	Insurance Representative
3321-03	3321-03	Insurance Underwriter
4312-12	4312-12	Insurance Underwriting Assistant
4312-08	4312-08	Insurance Underwriting Clerk
2511-45	2511-60	Integrated Circuit (IC) Designer (Information Technology)
2151-26	New	Integrated Circuit Design Electrical Engineer (IC)

MASCO 2020	MASCO 2013	JOB TITLE
2152-30	New	Integrated Circuit Design Electronic Engineer (IC)
2152-35	New	Integrated Circuit Designer (IC)
2152-36	New	Integrated Circuit Package Assembly Process Engineer (IC)
2522-29	New	Integration Technology Specialist
2146-28	New	Integrity Management Engineer
2422-03	2422-03	Intelligence Officer
2361-02	2361-02	Intensive Language Teacher
2831-21	2831-21	Interactive Media Writer
2543-11	New	Interface Designer
2161-03	2161-04	Interior Architect
3632-16	3632-16	Interior Decorator
3632-02	3632-02	Interior Designer
3313-16	New	Internal Audit Assistant
2411-37	New	Internal Auditor
2519-15	New	Internal Auditor (Information Technology)
2144-13	2144-16	Internal Combustion Engine Engineer
2153-22	New	Internet Protocol Engineer (IP)
2531-39	New	Internet Safety Evaluater
5244-07	5244-09	Internet Salesperson
1511-16	1511-13	Internet Service Provider
2513-02	2513-02	Internet/ Intranet Developer
3341-22	New	Internship Corporate Affairs
2833-03	2833-04	Interpreter
2833-10	2833-01	Interpreter Grade LA19
2833-09	New	Interpreter Grade LA29
2846-08	2846-08	Interviewer, Media
4321-28	4321-29	Inventory Clerk
4321-29	4321-30	Inventory Purchasing Clerk
2919-03	2919-06	Investigation Officer Grade P41
2919-04	New	Investigation Officer Grade P43
2919-05	New	Investigation Officer Grade P47
2919-06	New	Investigation Officer Grade P51
2919-07	New	Investigation Officer Grade P53
2413-08	New	Investment Analyst
3311-05	3311-05	Investment Broker
4312-20	4312-21	Investment Clerk
2413-03	2413-03	Investment Consultant
4311-11	4311-11	Invoice Clerk
2512-34	New	iOS Developer
2523-16	New	IP logic Design Engineer (Internet Protocol)
9121-02	9121-02	Ironers
3132-16	3119-03	Irrigation Inspector Grade J19
3142-09	3142-12	Irrigator
4419-07	3612-01	Islamic Affairs Assistant Grade S19
2826-01	2826-01	Islamic Affairs Officer Grade S41
2371-02	2371-03	Islamic Education Teacher
		J
2514-23	2514-23	J2EE Programmer
2514-24	2514-24	J2ME Programmer
8152-09	8152-09	Jacquard Card Cutter
5153-09	5153-09	Janitor
2514-31	2514-31	Java Analyst Programmer
2511-18	2511-27	Java Application Consul
2512-13	2512-13	Java Application Developer
2511-17	2511-26	Java Consultant
2512-14	2512-14	Java Developer

MASCO 2020	MASCO 2013	JOB TITLE
2514-25	2514-25	Java EE Programmer
2514-42	New	Java Programmer Analyst
2514-22	New	JavaScript Programmer
2511-23	2511-33	JD Edwards (JDE) Application Specialist
2511-52	New	JD-Edwards (JDE) Consultant
2144-11	2144-14	Jet Engine Engineer
7232-10	7232-10	Jet Engine Mechanic
3151-11	3151-12	Jet Engine Technician
7313-01	7313-01	Jeweller
2163-04	2163-04	Jewellery Designer
7313-12	7313-12	Jewellery Enameller
7313-10	7313-10	Jewellery Engraver
7313-05	7313-05	Jewellery Repairer
7222-03	7222-05	Jig Maker and Fixture
7314-09	7314-09	Jiggerer, Pottery and Porcelain
2423-04	2423-04	Job Analyst
2423-06	2423-06	Job Evaluator
3333-02	3333-02	Job Placement Officer
2425-19	New	Job Preparation Executive
5111-14	New	Job Preparator
3151-17	New	Job Preparator, Technical (Aircraft)
3621-10	3621-10	Jockey
7115-12	7115-14	Joiner
7115-08	7115-10	Joiner, Aircraft
7115-03	7115-05	Joiner, Construction
7115-04	7115-06	Joiner, Ship
2832-03	2832-07	Journalist
2832-14	New	Journalist Grade S29
2832-15	2832-01	Journalist, Grade S41
2612-01	2612-01	Judge
2612-04	2612-04	Judge, Federal Court
2612-06	2612-06	Judge, High Court
2612-08	2612-08	Judge, Industrial Court
2612-03	2612-03	Judge, Native Court
2612-05	2612-05	Judge, Sessions Court
2612-07	2612-07	Judge, Syariah Court
3622-06	3622-10	Judo Coach
2847-09	2847-10	Juggler
1111-10	1111-10	Junior Minister
2611-20	2619-14	Jurist
		K
2826-05	2826-06	Kadhi
1113-08	1113-08	Kapitan
3622-07	3622-11	Karate Coach
5164-02	5164-03	Keeper in Zoo, Bird and Aquatic Parks
8112-09	8112-09	Keeper, Jig
8351-15	8351-15	Keeper, Light House
4419-13	3622-04	Kesatria Assistant Grade S19
2399-01	2399-03	Kesatria Officer Grade S41
7222-05	7222-07	Keysmith
8181-05	8181-05	Kiln-Operator
8181-08	8181-08	Kiln-Operator, Brick and Tile
8131-33	8131-33	Kiln-Operator, Charcoal
8131-14	8131-14	Kiln-Operator, Chemical Processes
8181-12	8181-12	Kiln-Operator, Pottery and Porcelain
8161-68	8161-68	Kiln-Operator, Spirit Matlting
5312-04	5312-04	Kindergarten Assistant

MASCO 2020	MASCO 2013	JOB TITLE
5312-05	5312-05	Kindergarten Attendant
2342-02	2342-02	Kindergarten Teacher
5312-06	5312-06	Kindergarten Worker
5211-03	5211-03	Kiosk Salesperson
2712-02	2713-03	Kitchen Administrator
9412-03	9412-03	Kitchen Assistant
3641-10	3641-13	Kitchen Coordinator
9412-01	9412-01	Kitchen Helper
4321-27	4321-28	Kitchen Hotel Clerk
9412-04	9412-04	Kitchen Porter
7224-12	7224-12	Knife Sharpener
7318-09	7318-09	Knitter
7621-24	7621-25	Knitter, Hand
3115-42	New	Knitting Technician
0131-04	New	Krew Mekanize
		L
9321-02	9321-02	Labeller (Hand)
3111-21	3111-23	Laboratory Assistant
3111-01	3111-01	Laboratory Assistant Grade C19
3111-31	3111-01	Laboratory Assistant Grade K1
3111-32	New	Laboratory Technician
2263-02	2263-02	Labour Affairs Officer - Occupational Safety and Health
3333-03	3333-03	Labour Contractor
2821-08	2821-10	Labour Economist
2423-10	2423-10	Labour Management Relations Conciliator
2263-05	2263-05	Labour Standards Officer - Occupational Safety and Health
9629-01	New	Labourer
9321-07	9329-04	Labourer, Assembling
9313-08	9313-08	Labourer, Construction (Building Work)
9312-01	9312-01	Labourer, Construction (Civil Engineering)
9219-01	9219-01	Labourer, Crocodile Cage
9313-07	9313-07	Labourer, Demolition
9312-06	9312-06	Labourer, Earthmoving
9211-21	New	Labourer, Estate
9215-01	9215-01	Labourer, Forestry
9214-06	9214-06	Labourer, Garden
9214-07	9214-07	Labourer, Horticultural
9215-02	9215-02	Labourer, Hunting
9214-05	9214-05	Labourer, Landscape
9313-02	9313-02	Labourer, Maintenance
9312-02	9312-02	Labourer, Maintenance (Dam)
9321-04	9329-01	Labourer, Manufacturing
9311-02	9311-02	Labourer, Mining
9214-08	9214-08	Labourer, Nursery
9613-04	9613-04	Labourer, Odd-Jobbing
9311-05	9311-05	Labourer, Quarry
9311-06	9311-06	Labourer, Sanding
9219-02	9219-02	Labourer, Snake Cage
9215-03	9215-03	Labourer, Trapping
7621-15	7621-16	Lacer, Hand
7612-16	7612-17	Lacquerer, Wood
5162-01	5162-01	Lady-in-Waiting
4111-02	4111-02	Land Administrative Assistant Grade NT17
9313-05	9313-05	Land Clearer
2164-06	2164-07	Land Planner
2132-04	2132-04	Land Planning Officer Grade G41
3142-21	3129-01	Land Scheme Supervisor Grade G19

MASCO 2020	MASCO 2013	JOB TITLE
2165-17	2165-18	Land Surveyor
1323-11	New	Land Surveyor Manager
3521-16	3521-16	Land-Base Radio Equipment Technician
2263-41	New	Landfill Engineer
3134-22	New	Landfill Gas Operation Control Supervisor
1321-18	New	Landfill Gas Plant Manager
1321-17	New	Landfill Gas Plant Operation Manager
3134-21	New	Landfill Gas Wells Operator
2162-02	2162-03	Landscape Architect
2162-01	2162-01	Landscape Architect Grade J41
2841-06	2841-06	Landscape Artist
6113-07	6113-07	Landscape Gardener
3123-08	New	Landscape Supervisor
3118-25	New	Landscape Technician
3341-14	2919-18	Language Planner Assistant Grade S29
2833-08	New	Language Planner Grade S41
2361-01	2361-01	Language Teacher Grade DG41
2266-05	2266-05	Language Therapist
2151-20	2151-22	Laser Welding Cylindrical Engineer
2426-14	New	Laser Welding Polymer Research and Development Controller
8141-13	8141-13	Latex Foam Machine Operator
8172-07	8172-07	Lathe Feeder, Veneer
8221-54	8221-54	Lathe Machine Operator
7113-02	7113-03	Lathe Stone Worker
8172-06	8172-06	Lathe-Operator, Cutting Veneer
8173-03	8173-03	Lathe-Operator, Wood (Machine)
8173-01	7613-08	Lathe-Operator, Woodworking
1622-05	1622-05	Laundering, Dry-Cleaning and Ironing Manager
9112-04	9112-04	Laundress
9111-07	9111-07	Laundress, Household
1622-09	1622-09	Laundry Manager
5151-04	5151-04	Laundry Supervisor
3411-05	3411-09	Law Clerk
2611-09	2611-20	Lawyer
2611-15	2611-26	Lawyer, Civil
2611-14	2611-25	Lawyer, Conveyancing
2611-12	2611-23	Lawyer, Criminal
2611-13	2611-24	Lawyer, Litigation
2611-11	2611-22	Lawyer, Syariah
2541-01	2166-36	Layout Artist
2152-25	2152-38	Layout Integrated Circuit Designer (IC)
1615-14	New	Leader, University
9511-04	9511-06	Leaflet Distributor
1212-09	1212-08	Learning and Organization Development Manager
2392-07	2392-07	Learning Disability Special Education Teacher
2392-08	2392-08	Learning Support Teacher
2412-17	New	Leasing Executive
2141-16	2141-16	Leather Technologist
2311-08	2311-10	Lecturer
2311-11	New	Lecturer, College
2311-12	New	Lecturer, Polytechnic
2311-13	New	Lecturer, University
4311-06	4311-06	Ledger Bookkeeper
4311-03	4311-03	Ledger Clerk
2611-07	2611-18	Legal Adviser
1617-01	1617-01	Legal and Risk Management Manager
3411-02	3411-06	Legal Assistant
2611-10	2611-21	Legal Executive
1617-02	1617-02	Legal Manager

MASCO 2020	MASCO 2013	JOB TITLE
2611-22	New	Legal Officer Grade 23
2611-01	2611-01	Legal Officer Grade L41
3342-01	3342-02	Legal Secretary
6115-02	6115-02	Lentil Grower
2542-02	New	Level Designer (Digital)
2833-05	2833-06	Lexicographer
2812-05	2812-09	Librarian
4411-06	New	Librarian Assistant Grade S19
2812-01	2812-01	Librarian Grade S41
2812-07	2812-11	Librarian, Audio-Visual
2812-08	2812-12	Librarian, Film
4411-05	4411-05	Library Administrative Assistant
4411-07	3633-08	Library Assistant
4411-03	4411-03	Library Clerk
2812-04	2812-08	Library Executive
4411-04	4411-04	Library File compiler
1624-01	1624-01	Library Manager
3633-05	3633-06	Library Technician
5419-25	3714-04	Licensing Assistant
3714-01	3714-03	Licensing Inspector
2914-03	2914-05	Licensing Officer
3611-21	3611-23	Life Skills Instructor
8351-14	8351-14	Life-Boatman
5419-08	5419-09	Lifeguard
2263-43	New	Lift Competent Person
2144-04	2144-06	Lift Engineer
7412-18	7412-19	Lift Mechanic
3153-04	3153-04	Light Rail Transit Supervisor
8351-12	8351-12	Lighterman
2541-07	New	Lighting Artist
3634-09	3639-05	Lighting Technician
8189-10	8189-10	Line Leader
9111-10	9111-10	Linen Housekeeping Assistant
4321-26	4321-27	Linen Supply Hotel and Lodging Clerk
3622-18	3622-22	Linesman
2512-39	New	Linux Software Engineer
3132-13	3132-13	Liquid Waste Process Operator
2411-10	2411-14	Liquidator
3339-02	3339-02	Literary Agent
3411-08	3411-12	Litigation Clerk
9212-02	9212-02	Livestock Farm Cleaner
9212-01	9212-01	Livestock Farm Labourer
9212-03	9212-03	Livestock Farm Labourer, Dairy
9212-04	9212-04	Livestock Farm Labourer, Poultry
3719-08	3719-10	Livestock Inspector
1311-08	1311-08	Livestock Manager
2182-25	2179-01	Load Sheet Officer
9333-12	9333-12	Loader Worker
9333-07	9333-07	Loader, Aircraft
9333-08	9333-08	Loader, Boat (Liquid and Gases)
9333-06	9333-06	Loader, Railway and Road Vehicle
3312-02	3312-02	Loan Officer
7222-06	7222-08	Locksmith
8311-03	8311-04	Locomotive Driver
8311-01	8311-02	Locomotive Driver Grade A13
8311-10	8311-02	Locomotive Driver Grade A19
2144-12	2144-15	Locomotive Engine Engineer
3153-03	3153-03	Locomotive Supervisor
6211-08	6211-09	Log Feller

MASCO 2020	MASCO 2013	JOB TITLE
3122-12	3122-12	Log Yard Supervisor
3119-21	3119-29	Log Yard Technician
6211-02	6211-03	Logger
6211-06	6211-07	Logger, Underwater
2511-46	2511-61	Logic Designer (Information Technology)
4323-01	4323-01	Logistic Clerk
2182-28	New	Logistic Coordinator
0131-59	0321-18	Logistic Technician
2182-26	2179-03	Logistics Executive
1324-05	1324-13	Logistics Manager
3159-02	3129-05	Logistics Supervisor
2182-09	2182-09	Logs Officer
7621-21	7621-22	Loom Threader, Hand
2146-36	New	Loss Control Engineer
2512-18	2512-18	Lotus Notes Developer (Information Technology)
2514-11	2514-11	Lotus Notes Programmer
5412-11	3715-01	Low-ranking Officer and Constable Grade YA1
5412-02	5412-02	Low-Ranking Police Officer and Aboriginal Constable, Grade YP1
5412-01	5412-01	Low-Ranking Police Officer and Auxiliary Constable, Grade YT1
1113-13	1113-13	Luak
2144-20	2144-23	Lubrication Engineer
8219-10	8219-11	Luggage Finisher
2831-12	2831-12	Lyricist
		M
1321-24	New	Machine and Equipment Utilization Planner
8159-02	8159-02	Machine Cutter, Leather Garment
2524-11	New	Machine Learning Engineer
8189-01	8189-01	Machine Operator
8189-12	New	Machine Operator Grade K2
8189-08	8189-08	Machine Operator, Cable and Rope Splicing
8142-07	8142-07	Machine Operator, Plastics Embossing
8114-08	8114-08	Machine Operator, Abrasive Coating
8181-21	8181-21	Machine Operator, Abrasives Mixing
8131-56	8131-56	Machine Operator, Ammunition Products
8114-04	8114-04	Machine Operator, Asbestos
8114-05	8114-05	Machine Operator, Asbestos-Cement Product
8156-06	8156-06	Machine Operator, Baggage Production
8121-22	8121-22	Machine Operator, Barbed-Wire
8161-82	8161-82	Machine Operator, Bean Curd Production
8156-08	8156-08	Machine Operator, Belt Production
8189-05	8189-05	Machine Operator, Bending
7323-13	7323-13	Machine Operator, Bookbinding
8181-24	8181-24	Machine Operator, Bottle Production
8183-10	8183-10	Machine Operator, Bottling
8151-08	8151-08	Machine Operator, Braid Production
8161-39	8161-39	Machine Operator, Bread Production
8161-73	8161-73	Machine Operator, Brew
8181-23	8181-23	Machine Operator, Brick-and-Tile Production
8161-15	8161-15	Machine Operator, Butter Products
8141-04	8141-04	Machine Operator, Calender Rubber
8131-51	8131-51	Machine Operator, Candle Production
8183-09	8183-09	Machine Operator, Capping
8143-06	8143-06	Machine Operator, Cardboard Presser
8143-10	8171-08	Machine Operator, Cardboard Production
8143-07	8143-07	Machine Operator, Cardboard Products
8152-03	8152-03	Machine Operator, Carpet Weaving
8143-01	8143-01	Machine Operator, Carton and Paper Box Production

MASCO 2020	MASCO 2013	JOB TITLE
8173-04	8173-04	Machine Operator, Carving Wood
8114-02	8114-02	Machine Operator, Cast Concrete Products
8122-09	8122-09	Machine Operator, Cast Metal Article Finishing
8114-06	8114-06	Machine Operator, Cast Stone
8181-11	8181-11	Machine Operator, Casting Pottery and Porcelain
8143-03	8143-03	Machine Operator, Cellophane Bag Production
8114-03	8114-03	Machine Operator, Cement Product
8121-16	8121-16	Machine Operator, Centrifugal Casting
8181-09	8181-09	Machine Operator, Ceramics Production
8161-33	8161-33	Machine Operator, Cereal Production
8131-02	8131-02	Machine Operator, Chemical Process Mixing and Blending
8131-04	8131-04	Machine Operator, Chemical Processes Pulverising
8171-02	8171-02	Machine Operator, Chipping
8131-50	8131-50	Machine Operator, Chlorine Gas Production
8161-34	8161-34	Machine Operator, Chocolate Production
8161-74	8161-74	Machine Operator, Cigar Production
8161-75	8161-75	Machine Operator, Cigarette Production
8181-01	8181-01	Machine Operator, Clay Mixing
8143-11	8171-11	Machine Operator, Coating
8161-78	8161-78	Machine Operator, Cocoa-Bean Processing
8161-87	8161-87	Machine Operator, Coconut Peeler
8161-79	8161-79	Machine Operator, Coffee-Bean Processing
8131-41	8131-41	Machine Operator, Coke Production
8114-01	8114-01	Machine Operator, Concrete Mixing
8161-35	8161-35	Machine Operator, Confectionery Production
8183-11	8183-11	Machine Operator, Container Filling
8151-05	8151-05	Machine Operator, Cotton-Mixing
8171-09	8171-10	Machine Operator, Cutting Paper
8141-05	8141-05	Machine Operator, Cutting Rubber
8161-11	8161-11	Machine Operator, Dairy Product Processing
8161-14	8161-14	Machine Operator, Dairy Products Churning
8131-40	8131-40	Machine Operator, Detergent Production
8114-09	8114-09	Machine Operator, Diamond Polishing
8121-14	8121-14	Machine Operator, Die-Casting
8111-03	8111-03	Machine Operator, Drilling
8154-06	8154-06	Machine Operator, Dry-Cleaning
8154-02	8154-02	Machine Operator, Dyeing
7323-14	7323-14	Machine Operator, Embossing Book
8143-04	8143-04	Machine Operator, Envelope Production
8131-46	8131-46	Machine Operator, Explosives Production
8141-02	8141-02	Machine Operator, Extruding Rubber
8153-05	8153-05	Machine Operator, Fabric Repairer
8152-11	8152-11	Machine Operator, Fabric Weaving
8161-77	8161-77	Machine Operator, Feed Mixing
8181-25	8181-25	Machine Operator, Fibre Glass Production
8151-06	8151-06	Machine Operator, Fibre Preparing
8132-08	8132-08	Machine Operator, Film Paper Production
8132-05	8132-05	Machine Operator, Film Processing Machine
8131-47	8131-47	Machine Operator, Fireworks Production
8161-09	8161-09	Machine Operator, Fish Canning
8161-06	8161-06	Machine Operator, Fish Food Production
8161-02	8161-02	Machine Operator, Fish Processing
8159-08	8159-08	Machine Operator, Folding Cloth
8161-51	8161-51	Machine Operator, Food Canning
8161-03	8161-03	Machine Operator, Food Processing
8156-01	8156-01	Machine Operator, Footwear Production
8156-05	8156-05	Machine Operator, Footwear Production for Special/Disabled Person
8161-48	8161-48	Machine Operator, Fruit Juice Production

MASCO 2020	MASCO 2013	JOB TITLE
8173-07	8173-07	Machine Operator, Furniture Production
8122-05	8122-05	Machine Operator, Galvanishing Metal
8159-01	8159-01	Machine Operator, Garments Cutting
8181-20	8181-20	Machine Operator, Glass and Ceramics Kiln
8181-15	8181-15	Machine Operator, Glass Blowing
8181-17	8181-17	Machine Operator, Glass Engraving
8181-16	8181-16	Machine Operator, Glass Etching
8181-02	8181-02	Machine Operator, Glass Mixing
8181-22	8181-22	Machine Operator, Glass Pressing
8181-26	8181-26	Machine Operator, Glaze Production
8131-03	8131-03	Machine Operator, Glue-Mixing
8131-48	8131-48	Machine Operator, Halogen Gas Production
8156-07	8156-07	Machine Operator, Handbag Production
8156-09	8156-09	Machine Operator, Harness
8159-04	8159-04	Machine Operator, Hat Making
8155-03	8155-03	Machine Operator, Hide Dehairing
8155-02	8155-02	Machine Operator, Hide Flesing
8155-01	8155-01	Machine Operator, Hide Processing
8131-49	8131-49	Machine Operator, Hydrogen Gas Production
3132-10	3132-10	Machine Operator, Ice Production
8161-12	8161-12	Machine Operator, Ice-Cream Production
8172-12	8172-12	Machine Operator, Incising (Wood Preserving)
8121-26	8121-26	Machine Operator, Insulating
8189-06	8189-06	Machine Operator, Insulation
8143-05	8143-05	Machine Operator, Joss Paper Production
8152-04	8152-04	Machine Operator, Knitting
8183-04	8183-04	Machine Operator, Labelling
8152-10	8152-10	Machine Operator, Lace Production
8157-02	8157-02	Machine Operator, Laundering
8157-03	8157-03	Machine Operator, Laundry Pressing
8131-55	8131-55	Machine Operator, Lead Production
8155-05	8155-05	Machine Operator, Leather Cutting
8159-06	8159-06	Machine Operator, Leather Pattern-Making
8131-52	8131-52	Machine Operator, Linoleum Production
8161-65	8161-65	Machine Operator, Liquor Production
8161-45	8161-45	Machine Operator, Margarine Processing
8131-53	8131-53	Machine Operator, Match Production
8159-05	8159-05	Machine Operator, Mattress Production
8161-08	8161-08	Machine Operator, Meat Canning
8161-01	8161-01	Machine Operator, Meat Processing
8121-15	8121-15	Machine Operator, Metal Casting
8122-03	8122-03	Machine Operator, Metal Dipping
8121-13	8121-13	Machine Operator, Metal Drawing
8122-01	8122-01	Machine Operator, Metal Electroplating
8161-13	8161-13	Machine Operator, Milk Powder Production
8141-01	8141-01	Machine Operator, Milling Rubber
8111-04	8111-04	Machine Operator, Mine Drilling
8112-05	8112-05	Machine Operator, Mineral Milling
8131-42	8131-42	Machine Operator, Mosquito Coil Production
8161-20	8161-20	Machine Operator, Mustard Seed Milling
8152-05	8152-05	Machine Operator, Net Production
8161-36	8161-36	Machine Operator, Noodle Production
8161-44	8161-44	Machine Operator, Nut Processing
8161-90	8161-90	Machine Operator, Nuts Peeler
8161-47	8161-47	Machine Operator, Oil and Fat Refining
8156-02	8156-02	Machine Operator, Orthopaedic Footwear Production
8183-05	8183-05	Machine Operator, Packing
8131-01	8131-01	Machine Operator, Paint-Mixing

MASCO 2020	MASCO 2013	JOB TITLE
8143-09	8143-09	Machine Operator, Paper Bag Production
8143-02	8143-02	Machine Operator, Paper Products
8171-08	8171-09	Machine Operator, Papermaking
8161-37	8161-37	Machine Operator, Pasta Production
8161-38	8161-38	Machine Operator, Pastry Production
8131-54	8131-54	Machine Operator, Pencil Production
8131-43	8131-43	Machine Operator, Pharmaceutical Products
8132-06	8132-06	Machine Operator, Photograph Enlarging
8132-03	8132-03	Machine Operator, Photographic Developing
8132-07	8132-07	Machine Operator, Photographic Film Production
8132-09	8132-09	Machine Operator, Photographic Plate Production
8132-02	8132-02	Machine Operator, Photographic Printing
8132-10	8132-10	Machine Operator, Photographic Products
8161-89	8161-89	Machine Operator, Pineapple Peeler
8142-12	8142-12	Machine Operator, Plastic Cable
8142-09	8142-09	Machine Operator, Plastic Product
8142-08	8142-08	Machine Operator, Plastic Production
8142-10	8142-10	Machine Operator, Plastic Straw Production
8142-04	8142-04	Machine Operator, Plastics Compression Moulding
8142-03	8142-03	Machine Operator, Plastics Extruding
8142-06	8142-06	Machine Operator, Plastics Tableting
8161-88	8161-88	Machine Operator, Potato Peeler
8181-10	8181-10	Machine Operator, Pottery and Porcelain
8183-07	8183-07	Machine Operator, Press
8132-25	8132-25	Machine Operator, Printing/Photography (Colour)
8151-07	8151-07	Machine Operator, Rope-Laying
8141-22	8141-22	Machine Operator, Rubber Laminating
8141-09	8141-09	Machine Operator, Rubber Products
8141-08	8141-08	Machine Operator, Rubber Stamp Production
8156-04	8156-04	Machine Operator, Safety Footwear Production
8161-40	8161-40	Machine Operator, Sago Production
8122-07	8122-07	Machine Operator, Sandblaster Equipment
8161-50	8161-50	Machine Operator, Sauce Production
8161-07	8161-07	Machine Operator, Sausage Production
8132-04	8132-04	Machine Operator, Scanning and Filming
8161-05	New	Machine Operator, Seafood Production
8183-08	8183-08	Machine Operator, Sealing
8121-23	8121-23	Machine Operator, Seamless Pipe and Tube
8172-11	8172-11	Machine Operator, Seasoning Wood
8189-07	8189-07	Machine Operator, Silicon Chip Production
8161-04	8161-04	Machine Operator, Slaughtering
8161-63	8161-63	Machine Operator, Soft-Drinks Production
8161-81	8161-81	Machine Operator, Soup Powder Production
8161-64	8161-64	Machine Operator, Spirit Brewing
8161-66	8161-66	Machine Operator, Spirit Distillig
8156-03	8156-03	Machine Operator, Sports Footwear Production
8122-12	8122-12	Machine Operator, Sprying Metal
8155-06	New	Machine Operator, Staining Leather
8154-03	8154-03	Machine Operator, Starch
8112-03	8112-03	Machine Operator, Stone Crushing
8112-04	8112-04	Machine Operator, Stone Milling
8114-10	8114-10	Machine Operator, Stone Polishing
8112-01	8112-01	Machine Operator, Stone Processing
8112-02	8112-02	Machine Operator, Stone Splitting
8155-04	8155-04	Machine Operator, Tanning
8161-80	8161-80	Machine Operator, Tea-Leaf Processing
8114-07	8114-07	Machine Operator, Terrazzo Tile
8154-01	8154-01	Machine Operator, Textile Bleaching

MASCO 2020	MASCO 2013	JOB TITLE
8159-03	8159-03	Machine Operator, Textile Cutting
8154-05	8154-05	Machine Operator, Textile Dyeing
8157-01	8157-01	Machine Operator, Textile Fibres Dyeing
8159-07	8159-07	Machine Operator, Textile Pattern-Making
8154-08	8154-08	Machine Operator, Textile Shrinking
8152-07	8152-07	Machine Operator, Textile Size
8151-01	8151-01	Machine Operator, Thread and Yarn Twisting
8161-76	8161-76	Machine Operator, Tobacco Production
8131-44	8131-44	Machine Operator, Toiletry Products
8172-13	8172-13	Machine Operator, Treating Wood
8342-02	8342-02	Machine Operator, Trench Digging
8141-06	8141-06	Machine Operator, Tyre Production
8142-05	8142-05	Machine Operator, Vacuum Plastic-Forming
8161-49	8161-49	Machine Operator, Vegetable Juice Production
8161-46	8161-46	Machine Operator, Vegetable Processing
8161-62	8161-62	Machine Operator, Vinegar Making
8161-31	8161-31	Machine Operator, Wafer-Baking
8152-01	8152-01	Machine Operator, Warping Beam (Textile Weaving)
8154-04	8154-04	Machine Operator, Washing
8131-45	8131-45	Machine Operator, Washing Chemical and Related Material
8152-02	8152-02	Machine Operator, Weaving
8113-06	8113-06	Machine Operator, Well Boring Equipment
8121-25	8121-25	Machine Operator, Wire Drawing
8121-27	8121-27	Machine Operator, Wire Extruding
8121-24	8121-24	Machine Operator, Wire Stripping and Cutting
8171-04	8171-04	Machine Operator, Wood Grinding
8173-08	8173-08	Machine Operator, Wood Products
8173-05	8173-05	Machine Operator, Wood-Wool
8183-06	8183-06	Machine Operator, Wrapping
8161-32	8161-32	Machine Operator, Yeast Making
8142-01	8142-01	Machine Operator,Plastics Mixing
8131-57	New	Machine Operator,Soap
3115-25	3115-27	Machine Technician
7223-06	7223-06	Machine Tool Operator
7223-05	7223-05	Machine Tool Setter
7223-07	7223-07	Machine Tool Setter-Operator
7224-03	7224-03	Machine Tools Sharpener
8351-20	8351-20	Machine Wiper
2144-03	2144-05	Machinery and Tools Industrial Engineer
7233-01	7233-01	Machinery Mechanic
8173-02	8173-02	Machinist, Wood
2847-03	2847-03	Magician
2612-02	2612-02	Magistrate
9332-04	9332-04	Mahout
9622-08	New	Maintenance Assistant
2142-32	2142-38	Maintenance Engineer
2182-08	2182-08	Maintenance Executive
7412-13	7412-14	Maintenance Fitter
1321-14	New	Maintenance Manager
3122-26	3129-08	Maintenance Supervisor
3119-03	3119-24	Maintenance Technician
2263-44	New	Major Hazard Competent Person
8141-10	8141-10	Maker, Air-Bag
7621-12	7621-13	Maker, Artificial Flower
7624-06	7624-06	Maker, Bedding
7623-11	7623-11	Maker, Belt
7612-01	7612-02	Maker, Cabinet
7512-08	New	Maker, Chewing-Gum

MASCO 2020	MASCO 2013	JOB TITLE
7516-02	7516-02	Maker, Cigar
7516-03	7516-03	Maker, Cigarette
7612-05	7612-06	Maker, Clog
7612-04	7612-05	Maker, Coffin
7624-04	7624-04	Maker, Cushion
7621-13	7621-14	Maker, Doll and Stuffed-Toy
8181-29	8181-29	Maker, Fibreglass
7623-07	7623-07	Maker, Footwear Sports
7623-03	7623-03	Maker, Footwear Surgical
7612-03	7612-04	Maker, Furniture
7622-03	7622-03	Maker, Garment
8161-71	8161-71	Maker, Germination Equipment Malting
8181-31	8181-31	Maker, Glass Tube
8181-30	8181-30	Maker, Glaze
7621-19	7621-20	Maker, Hand Braid
9321-09	9329-07	Maker, Hand Carton and Paper Box
7621-20	7621-21	Maker, Hand Net
7621-05	7621-06	Maker, Hat / Cap
8141-12	8141-12	Maker, Hose
8161-55	8161-55	Maker, Jem
7318-03	7318-03	Maker, Leather Goods
7623-09	7623-09	Maker, Leather Handbag
6211-15	6211-16	Maker, Log-Raft
7624-03	7624-03	Maker, Mattres
7612-06	7612-07	Maker, Model Wooden
8161-56	8161-56	Maker, Peanut Butter
7612-08	7612-09	Maker, Picture Frame
7314-07	7314-07	Maker, Pottery and Porcelain Mould
7623-10	7623-10	Maker, Purse
8141-11	8141-11	Maker, Rubber Foam
7621-16	7621-17	Maker, Sack
7621-17	7621-18	Maker, Sail, Tent and Awning
7621-26	7621-27	Maker, Scarft
7624-05	7624-05	Maker, Soft Furnishing
7621-04	7621-05	Maker, Songkok
7623-08	7623-08	Maker, Sports Equipment Footwear
7612-14	7612-15	Maker, Sports Equipment Wood
7621-27	7621-28	Maker, Telekung
7612-13	7612-14	Maker, Toy Wood
8141-07	8141-07	Maker, Tyre
7621-18	7621-19	Maker, Umbrella
7621-06	7621-07	Maker, Wig
5142-03	5142-03	Make-Up Artist
3641-07	3641-10	Malay Cuisine Chef
2531-23	New	Malware Analyst
2131-34	2131-35	Mammalogist
3211-05	3211-05	Mammographer
2411-14	2411-18	Management Accountant
2421-04	2421-06	Management Consultant
2522-30	New	Management Information System (MIS) Specialist
2511-01	2511-03	Management Information Systems (MIS) Analyst
2512-46	2152-14	Management Information Systems (MIS) Engineer
4132-08	4132-11	Management Information Systems Clerk
3341-10	3341-10	Management Trainee
1121-22	1121-20	Manager
1121-29	New	Manager Grade P2
1321-12	New	Manager, Halal Food Manufacturing
1311-13	New	Manager, Halal Livestock Production

MASCO 2020	MASCO 2013	JOB TITLE
1324-16	New	Manager, Halal Logistics Operation
1311-12	New	Manager, Halal Slaughterhouse
1612-15	New	Manager, Health Service
1322-10	New	Manager, Metallurgy
1322-11	New	Manager, Offshore Installation: Oil or Gas
1121-08	1121-06	Managing Director
1121-18	1121-16	Managing-Director of Organization
6111-15	6111-15	Mandore, Plantation
5142-04	5142-04	Manicurist
1321-06	1321-04	Manufacturer
2141-63	New	Manufacturing Engineer
0131-65	New	Manufacturing Engineering Technician
2182-01	2182-01	Manufacturing Executive
3152-01	3152-01	Marine Assistant Grade A19
7239-01	7239-01	Marine Engine Mechanic
3115-18	3115-20	Marine Engineering Technician
2172-01	2172-01	Marine Officer Grade AL41
2149-02	2149-18	Marine Salvage Engineer
2172-10	2172-11	Marine Superintendent (Deck)
3152-07	New	Marine Supervisor
2165-15	2165-16	Marine Surveyor
5419-01	5419-02	Maritime Enforcement Officers of Other Ranks Grade T1
3719-01	New	Maritime Enforcement Officers Other Ranks Grade T5
2916-08	2919-10	Maritime Superintendent Officer Grade T13
6211-07	6211-08	Marker, Log
7222-04	7222-06	Marker, Metal
7213-10	7213-12	Marker, Sheet Metal
7214-05	7214-05	Marker, Structural Metal
7612-11	7612-12	Marker, Woodworking
2431-07	2431-07	Market Research Analyst
2431-16	New	Market Research Analyst, Halal Industry
2431-02	2431-02	Market Research Business Analyst
4312-07	4312-07	Market Research Enumerator
4226-01	4229-01	Market Research Interviewer
1221-06	1221-05	Market Research Manager
2421-07	New	Market Research/Business Analysts Organization
2413-12	New	Market Risk Officer
5211-02	5211-02	Market Salesperson
5211-10	5211-10	Market/Stall Holder
5211-09	5211-09	Market/Stall Vendor
2431-10	New	Marketing Communications Specialist
2431-31	New	Marketing Engineer
2431-20	3322-14	Marketing Executive
2431-33	New	Marketing Executive Grade P3
1221-04	1221-03	Marketing Manager
2431-36	New	Marketing Officer
3115-45	New	Marking Specialist
2825-04	2825-05	Marriage Counselor
2264-05	2264-07	Mascular Therapist
2264-03	2264-05	Massage Healer
3255-05	3255-05	Massage Therapist
2846-04	2846-04	Master of Ceremonies
7317-01	7317-02	Mat Weaver
8131-07	8131-07	Match Compounder, Chemical Processes
2541-06	New	Match Move Artist/3D Tracker
0311-05	0311-05	Material Branch Officer
1324-18	New	Material Control Assistant Manager
1324-17	New	Material Control Manager

MASCO 2020	MASCO 2013	JOB TITLE
3151-21	New	Material Controller, Aircraft
2182-31	New	Material Specialist
3119-18	3119-26	Material Store Technician
4321-14	4321-14	Material Storekeeper
1321-23	New	Material Utilization Planner
2146-40	New	Materials and Metallurgical Engineer
2141-69	2149-19	Materials Engineer
4312-32	3314-02	Mathematical Assistant
2121-02	2121-04	Mathematician
2121-05	2121-07	Mathematician, Actuarial Science
2121-03	2121-05	Mathematician, Applied Mathematics
2121-04	2121-06	Mathematician, Pure Mathematics
5151-06	5151-07	Matron (Housekeeping)
1612-16	New	Matron, Hospital
1613-08	New	Matron, Nursing Home
1112-30	1112-32	Mayor
7511-05	7511-05	Meat Curer
7231-01	7231-03	Mechanic
7421-05	7421-05	Mechanic, Electronic Instrument
7233-04	7233-04	Mechanic, Industrial Machinery
7233-03	7233-03	Mechanic, Machine-Tool
2144-02	2144-04	Mechanical Engineer
2144-27	2144-30	Mechanical Engineer, Aerospace
2144-25	2144-28	Mechanical Engineer, Agriculture
2144-14	2144-17	Mechanical Engineer, Automotive
2144-15	2144-18	Mechanical Engineer, Diesel
2144-05	2144-07	Mechanical Engineer, Instruments
2144-16	2144-19	Mechanical Engineer, Motor and Engine
2144-18	2144-21	Mechanical Engineer, Naval
2144-07	2144-10	Mechanical Engineer, Nuclear Power
3115-14	3115-16	Mechanical Engineering Assistant
3115-15	3115-17	Mechanical Engineering Estimator
3115-04	3115-06	Mechanical Engineering Technician
3115-09	3115-11	Mechanical Engineering Technician, Agriculture
3115-05	3115-07	Mechanical Engineering Technician, Industrial Machinery and Tools
3115-08	3115-10	Mechanical Engineering Technician, Instruments
3115-07	3115-09	Mechanical Engineering Technician, Lubrication
3115-06	3115-08	Mechanical Engineering Technician, Motors and Engines
3115-20	3115-22	Mechanical Engineering Technician, Ship Construction
2144-01	2144-03	Mechanical Engineering Technologist
2144-38	New	Mechanical Maintenance Engineer
1321-09	New	Mechanical Manager
3115-32	New	Mechanical Technician
2144-44	New	Mechanical Technologist
2144-60	2152-21	Mechatronic Engineer
3115-24	3115-26	Mechatronics Technician
2151-25	New	Media Process Engineer
3256-03	3256-04	Medical Assistant
3344-07	3344-07	Medical Billing Secretary
2211-02	2211-04	Medical Doctor
2211-06	2211-08	Medical Doctor, Anaesthesiology
2211-08	2211-10	Medical Doctor, Cardiology
2211-07	2211-09	Medical Doctor, Gynaecology
2211-05	2211-07	Medical Doctor, Insurance Consultancy
2211-09	2211-11	Medical Doctor, Neurology
2211-10	2211-12	Medical Doctor, Obstetrics
2211-11	2211-13	Medical Doctor, Ophthalmology
2211-12	2211-14	Medical Doctor, Psychiatry

MASCO 2020	MASCO 2013	JOB TITLE
2211-13	2211-15	Medical Doctor, Radiology
5321-13	5329-02	Medical Imaging Assistant
3344-06	3344-06	Medical Insurance Assistant
3256-01	3256-02	Medical Laboratory Assistant
3212-13	3212-14	Medical Laboratory Technician
3212-15	2269-04	Medical Laboratory Technician Grade U29
3212-16	New	Medical Laboratory Technologist
0131-43	New	Medical Laboratory Technologist
2311-30	New	Medical Lecturer Grade DU51
2311-02	New	Medical Lecturer Grade DU51P
2311-31	New	Medical Lecturer Grade DU53
2311-38	New	Medical Lecturer Grade DU55
2311-39	New	Medical Lecturer Grade Khas C
1612-06	1612-06	Medical Manager (Medical Administration)
2211-03	2211-05	Medical Officer
0111-01	2211-05	Medical Officer
2211-24	New	Medical Officer Grade 23
2211-01	2211-01	Medical Officer Grade UD41
2211-20	New	Medical Officer Grade UD43
2211-19	New	Medical Officer Grade UD43/UD47
2211-21	New	Medical Officer Grade UD47
2211-22	New	Medical Officer Grade UD51
2211-23	New	Medical Officer Grade UD53
2212-06	2212-06	Medical Oncologist
3631-10	3631-11	Medical Photographer
2211-04	2211-06	Medical Practitioner
3211-06	3211-06	Medical Radiation Therapist
4224-02	4224-02	Medical Receptionist
3252-01	3252-01	Medical Record Technician
3252-04	3252-04	Medical Records Analyst
3252-06	3252-06	Medical Records Clerk
3341-07	3341-07	Medical Records Unit Supervisor
2264-01	2264-01	Medical Rehabilitation Officer Grade U41
3212-11	3212-12	Medical Science Technician
3344-01	3344-01	Medical Secretary
1612-01	1612-01	Medical Services Director
3344-05	3344-05	Medical Stenographer
3215-03	3212-01	Medical Technician Grade U19
2264-02	2264-04	Medical Therapist
3255-09	2264-03	Medical Therapist Grade U29
0131-49	New	Medical Therapist, Occupational
3344-09	New	Medical Transcriptionist
3256-07	3256-08	Medicalist X-Ray Equipment
0221-10	0221-10	Member of Administration and Finance
0221-08	0221-08	Member of Communications
0221-18	New	Member of Electrical Radio and Radar Technician
0221-07	0221-07	Member of Hydrography
0131-06	New	Member of Infantry
0221-11	0221-11	Member of Logistics Technicians
0221-05	0221-05	Member of Naval Provost
0221-12	0221-12	Member of Navy Cooks
0221-13	0221-13	Member of Officers' Mess Personnel
0221-09	0221-09	Member of Physical Trainers
0221-17	0221-16	Member of Power and Ordinance Electrical Technicians
0221-15	0221-15	Member of Propulsion Marine Technicians
0221-03	0221-03	Member of Submarine Warfare (Control)
0221-02	New	Member of Submarine Warfare (Weapon)
0221-01	0221-01	Member of Surface Warfare

MASCO 2020	MASCO 2013	JOB TITLE
0131-33	New	Member of the Air Defense Artillery
0131-10	0221-14	Member of the Brass Band (MA)
0221-14	0221-14	Member of the Brass Band (RMN)
0131-01	New	Member of the Infantry
0131-02	New	Member of the Infantry Assistance Weapon
1111-14	1111-14	Member of the Senate
0131-11	New	Member of the Special Movement
0221-16	New	Member of the Srimala Marine Technician
1111-08	1111-08	Member of the State Legislative Assembly
0131-03	New	Member of Transportation Management
0221-04	0221-04	Member of Warfare Tactical Plotters
1111-05	1111-05	Members of Parliament
0131-32	New	Members of the Shot Control
3611-22	3611-24	Mental Health Worker
1111-11	1111-11	Menteri Besar
2431-39	New	Merger dan Acquisition Executive
9621-16	9621-19	Messenger
9621-04	9621-07	Messenger, Courier
7224-10	7224-10	Metal Finisher
7224-01	7224-01	Metal Grinder
2146-02	2146-02	Metal Mining Engineer
7224-09	7224-09	Metal Polisher
3135-03	3135-03	Metal Processing Control Operator
2146-08	2146-08	Metal Testing Engineer
7319-03	7319-03	Metal Toymaker
7212-08	New	Metal Welder
0131-20	New	Metal Worker
7223-01	7223-01	Metal Working Machine Adjuster
7223-02	7223-02	Metal Working Machine Operator
7223-03	7223-03	Metal Working Machine Setter
2146-09	2146-09	Metallurgist
2146-11	2146-11	Metallurgist, Assayer
2146-12	2146-12	Metallurgist, Extractive
2146-13	2146-13	Metallurgist, Foundry
2146-14	2146-14	Metallurgist, Physics
2146-10	2146-10	Metallurgist, Radioactive Minerals
3117-05	3117-06	Metallurgy Assay Technician
3117-07	3117-08	Metallurgy Foundry Technician
3117-09	3117-10	Metallurgy Physics Assistant
3117-06	3117-07	Metallurgy Physics Technician
3117-08	3117-09	Metallurgy Radioactive Minerals Technician
3632-17	3632-17	Metalwork Ornamental Designer
3111-15	3111-17	Meteorological Assistant
3111-26	3111-28	Meteorological Inspector
7311-11	7311-11	Meteorological Instrument Maker
2112-01	2112-01	Meteorological Officer Grade C41
3111-14	3111-16	Meteorological Technician
2112-02	2112-03	Meteorologist
2112-10	2112-11	Meteorologist, Environmental
2112-09	2112-10	Meteorologist, Marine
2112-11	2112-12	Meteorologist, Numerical Weather Prediction Modeling
2112-04	2112-05	Meteorologist-Climatology
2112-05	2112-06	Meteorologist-Weather Forecasting
2141-50	New	Method & Process Engineer
3119-04	3119-08	Methods Engineering Technician
2144-45	New	Metrology Equipment Engineer
2131-03	2131-04	Microbiologist
2512-12	2512-12	Microfocus Cobol Developer

MASCO 2020	MASCO 2013	JOB TITLE
2114-30	2114-35	Micropalaeontologist
3631-08	3631-09	Microphotographer
3631-09	3631-10	Microphotography Photographer
2144-32	2144-35	Microprogramming Engineer
3222-01	3222-02	Midwife
3222-02	3222-03	Midwifery Assistant
2361-03	2361-03	Migrant Education Teacher
0131-35	New	Military Accounting Clerk
0131-36	New	Military Accounting System
0131-05	New	Military Clerk
0131-70	New	Military Islamic Affairs Adviser
0131-51	New	Military Police Member
6121-08	6121-11	Milker
8141-15	8141-15	Mill, Rubber
8161-83	8161-83	Miller Operator
8161-24	8161-24	Miller, Grain
8161-25	8161-25	Miller, Oil Seed
8161-26	8161-26	Miller, Palm Oil
8161-28	8161-28	Miller, Rice
8161-29	8161-29	Miller, Spice
8161-30	8161-30	Miller, Tapioca
7621-03	7621-04	Milliner
8161-21	8161-21	Milling Assistant
2845-04	2845-05	Mime Artist
2847-05	2847-05	Mimic
3257-37	3257-37	Mine Examiner
3257-36	3257-36	Mine Safety Inspector
3121-01	3121-01	Mine Supervisor
2165-08	2165-09	Mine Surveyor
8111-01	8111-01	Miner
2114-05	2114-10	Mineralogist
3117-19	3117-20	Mines Inspector
3117-11	3117-12	Mining Assistant
2146-03	2146-03	Mining Coal Engineer
2146-01	2146-01	Mining Engineer
2181-01	2181-01	Mining Excecutive
7233-10	7233-10	Mining Machinery Fitter
7233-02	7233-02	Mining Machinery Mechanic
7233-11	7233-11	Mining Machinery Repairer
1322-05	1322-05	Mining Manager
8111-11	8111-11	Mining Plant Operator
1111-03	1111-03	Minister
6114-02	6114-02	Mixed Crop Farmer
6114-01	6114-01	Mixed Crop Grower
6131-01	6131-01	Mixed Product Farmer (Crops and Husbandry)
2511-47	2511-62	Mixed Signal Integrated Circuit (IC) Designer (Information Technology)
9321-08	9329-06	Mixer Hand
8181-27	8181-27	Mixer, Clay
8181-32	8181-32	Mixer, Glass
8161-22	8161-22	Mixer, Spice
2512-36	New	Mobile Application Developer (Mobile App)
2353-01	2353-01	Modeling Teacher
7314-03	7314-03	Modeller, Pottery and Porcelain
2141-48	New	Module Characterisation Engineer
5163-04	5163-04	Moirologist
4211-04	4211-04	Money Changer
4213-02	4213-02	Money-Lender
3612-01	3612-02	Monk

MASCO 2020	MASCO 2013	JOB TITLE
2113-40	2145-26	Moringa Specialist
4312-28	4312-29	Mortgage Clerk
3312-01	3312-01	Mortgage Officer
1411-04	1411-04	Motel Manager
2152-17	2152-30	Motherboard Designer
3521-05	3521-05	Motion Picture Assistant
2844-04	2844-05	Motion Picture Director
2844-05	2844-06	Motion Picture Photography Director
3632-18	3632-18	Motion Picture Set Decorator
8331-03	8331-03	Motor Coach Driver
2144-19	2144-22	Motor Engineer
7231-17	7231-19	Motor Vehicle Engine and Fuel Systems Mechanic
3154-02	3154-02	Motor Vehicle Engine and Fuel Systems Technician
7231-18	7231-20	Motor Vehicle Mechatronics Mechanic
3154-03	3154-03	Motor Vehicle Mechatronics Technician
7231-19	7231-21	Motor Vehicle Repairer
3154-06	3154-01	Motor Vehicle Technician
3115-34	New	Motor Vehicles Examiner Grade AB19
3115-46	New	Motor Vehicles Examiner Grade AB29
7231-04	7231-06	Motor Vehicles Mechanic
2144-23	2144-26	Motor-Car Design Engineer
7231-03	7231-05	Motorcycle Mechanic
8321-01	8321-01	Motorcyclist
7211-01	7211-02	Mould Maker
7211-02	7211-03	Mould Repairer, Foundry
7211-09	7211-10	Moulder
7211-03	7211-04	Moulder, Floor, Foundry
7211-04	7211-05	Moulder, Metal
7211-05	7211-06	Moulder, Pit Foundry
8142-11	8142-11	Moulder, Plastic
8141-14	8141-14	Moulder, Rubber
3119-27	New	Moulding Technician
4321-40	New	Mover Grade K1
2146-55	New	Mud Engineer
2114-33	New	Mudlogger
2826-03	2826-04	Mufti
7323-10	7323-10	Multibinder Operator
3514-03	New	Multimedia Animation
2541-20	2166-25	Multimedia Artist
2543-05	2166-12	Multimedia Designer
2844-03	2844-04	Multimedia Producer
2514-29	2514-29	Multimedia Programmer
2512-02	2512-02	Multimedia Software Developer
2411-15	2411-19	Municipal Accountant
3633-03	3633-03	Museum Assistant Grade S19
2811-05	2811-07	Museum Curator
5414-15	5414-16	Museum Guard
5113-04	5113-04	Museum Guide
1624-02	1624-02	Museum Manager
3633-06	3633-07	Museum Technician
6113-05	6113-05	Mushroom Cultivator
2842-11	2842-11	Music Arranger
2842-10	2842-10	Music Composer
2842-16	2842-16	Music Conductor
2842-09	2842-09	Music Director
2351-01	2351-01	Music Teacher
7312-02	7312-02	Musical Instrument Tuner
2842-06	2842-06	Musician

MASCO 2020	MASCO 2013	JOB TITLE
3634-01	3634-01	Musician Grade B19
3634-23	New	Musician Grade B21
3634-24	New	Musician Grade B25
3634-03	New	Musician Grade B29
3634-25	New	Musician Grade B31
3634-26	New	Musician Grade B37
2842-01	2842-01	Musician Grade B41
2842-17	New	Musician Grade B43
2842-18	New	Musician Grade B47
2842-19	New	Musician Grade B51
2842-20	New	Musician Grade B53
2842-02	2842-02	Musicologist
3612-07	New	Mutawif/Mutawifah
2131-30	2131-31	Mycologist
		N
5311-03	5311-03	Nanny
1113-06	1113-06	Native Chief
2146-07	2146-07	Natural Gas Mining Engineer
2146-20	2146-20	Natural Gas Production and Distribution Engineer
1324-21	New	Natural Gas Vehicle Maintenance Assistant Manager
1324-20	New	Natural Gas Vehicle Maintenance Manager
7231-23	New	Natural Gas Vehicle Maintenance Mechanic
1311-16	New	Natural Science Manager
2133-23	New	Natural Scientist
2231-05	2231-05	Naturopath
7311-12	7311-12	Nautical Instrument Maker
2171-05	2171-05	Naval Architect
0311-02	0311-02	Navigation Branch Officer
5414-22	New	Navigational Watch Support Operation
2514-30	2514-30	Navision Analyst Programmer
2512-21	2512-21	Navision Developer
2511-56	New	Navision Functional Consultant
2146-39	New	NDT Engineer (Nondestructive Testing)
2512-22	2512-22	Net Sharepoint Developer
2522-19	2522-25	NetApps Administrator
2523-03	2523-03	Network Administrator
2523-01	2523-01	Network Analyst
2153-23	New	Network and System Engineer
2153-15	New	Network Architect/Designer/Planner/Tester
2522-06	2522-10	Network Communications Executive
1511-31	New	Network Deployment Manager
2523-05	2523-05	Network Engineer
2153-18	New	Network Implementation and Construction Engineer
2523-04	2523-04	Network Infrastructure Administrator
1511-17	1511-14	Network Manager
1511-30	New	Network Operations Manager
2531-09	New	Network Penetration Tester
2523-12	New	Network Performance
2523-09	New	Network Performance Consultant
1511-29	New	Network Performance Manager
2514-13	2514-13	Network Programmer
2153-19	New	Network Quality Engineer
2523-14	New	Network Security Executive
2523-15	New	Network Security Software Developers
3513-03	New	Network Security Technician (ICT)
2523-02	2523-02	Network Services Consultant
2523-11	New	Network Specialist

MASCO 2020	MASCO 2013	JOB TITLE
2531-10	New	Network Strategist
3513-02	3513-02	Network Support Technician
2523-10	New	Network System Engineer (Information Technology)
2523-06	2523-06	Network Systems Engineer
2212-11	2212-11	Neurologist
2134-21	2134-21	Neuropathologist
1113-11	1113-11	New Village Head
2846-11	2846-11	News Anchor
3631-04	3631-05	News Photographer
2832-01	2832-05	News Reporter
5221-03	New	Newsagent
2846-06	2846-06	Newscaster
9621-08	9621-11	Newspaper Deliverer
9511-05	9511-07	Newspaper Distributor
2832-07	2832-11	Newspaper Editor
2832-08	2832-12	Newspaper Reporter
9521-01	9521-01	Newspaper Vendor
2113-37	2113-40	Nickel Plating Specialist
2263-26	New	Noise Competent Person
2263-45	New	Noise Risk Assessor
3122-22	New	Non-Destructive Testing (NDT) Inspector
2146-04	2146-04	Non-Metal Mining Engineer
3321-07	New	Non-Motor Underwriter
7512-06	7512-06	Noodle Maker
2611-21	2619-01	Notary
9621-02	9621-04	Notice Boy Grade N11
2831-03	2831-03	Novelist
2149-03	New	Nuclear Engineer
3211-07	3211-07	Nuclear Medicine Technologist
2149-04	2144-09	Nuclear Power Engineer
3131-09	3131-09	Nuclear Power Plant Operator
3131-17	New	Nuclear Power Reactor Operator
3161-01	3161-01	Nuclear Technician
5161-04	5161-04	Numerologist
3612-02	3612-03	Nun
2221-11	2221-12	Nurse
2221-13	2221-14	Nurse (Public Health)
2221-05	2221-06	Nurse Anaesthetist
2221-06	2221-07	Nurse Educator
3221-01	3221-01	Nurse Grade U29
2221-01	2221-01	Nurse Grade U41
2221-10	2221-11	Nurse Instructor
2221-07	2221-08	Nurse Practitioner
6113-08	New	Nursery Worker
5321-09	5321-09	Nursing Aide (Clinic or Hospital)
5322-03	5322-03	Nursing Aide (Home)
5321-03	5321-03	Nursing Assistant
5321-05	5321-05	Nursing Home Assistant
1613-05	New	Nursing Home Care Manager
3257-33	3257-33	Nursing Homes Inspector
5321-04	5321-04	Nursing Medical Assistant
8161-54	8161-54	Nut Roaster
2265-06	2265-06	Nutritionist
2511-13	New	.Net Application Consultant
2511-12	2511-21	.Net Consultant
2512-05	2512-05	.Net Developer
2514-17	2514-17	.Net Programmer
2514-40	New	.Net Programmer Analyst

MASCO 2020	MASCO 2013	JOB TITLE
2514-10	2514-10	.NetAnalyst Programmer
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2212-13	2212-13	Obstetrician and Gynaecologist
2212-14	2212-14	Obstetrician and Gynaecologist, Fertility
2212-16	2212-16	Obstetrician and Gynaecologist, Fetomaternal Medicine
2212-15	2212-15	Obstetrician and Gynaecologist, Oncology
2263-06	2263-06	Occupational Health and Safety Officer
2423-05	2423-05	Occupational Analyst
3257-06	New	Occupational Environmental Hygiene Inspector
2423-08	2423-08	Occupational Guidance Officer
2211-27	New	Occupational Health Doctor
3257-08	3257-08	Occupational Health Inspector
2221-19	2221-21	Occupational Health Nurse
2263-16	2263-16	Occupational Health Officer
3257-09	3257-09	Occupational Health Supervisor
3257-10	3257-10	Occupational Hygiene Inspector
3257-11	New	Occupational Hygiene Technician
2263-17	2263-17	Occupational Hygiene Technologist
2263-21	New	Occupational Hygienist
2263-20	2263-20	Occupational Safety and Health Adviser
3257-05	3257-05	Occupational Safety and Health Inspector
1212-05	1212-04	Occupational Safety and Health Manager
2263-15	2263-15	Occupational Safety and Health Officer
3257-07	3257-07	Occupational Safety Inspector
1212-08	1212-07	Occupational Safety Manager
2263-18	2263-18	Occupational Safety Officer
2268-01	2268-01	Occupational Therapist
2268-02	New	Occupational Therapy Officer Grade 23
2114-13	2114-18	Oceanographer
3111-20	3111-22	Oceanography Technician
9622-02	9622-04	Odd-Job Person
4121-12	New	Office Assistant Secretary
9621-06	9621-09	Office Boy
4311-23	4311-25	Office Cash Clerk
3343-09	3343-09	Office Chief Secretary
4111-10	4111-10	Office Clerk
5414-12	5414-12	Office Guard
4121-01	4121-01	Office Secretary Grade N29
3634-06	New	Officer, Cultural Grade B29
2425-15	New	Officer, Document
2425-14	New	Officer, Document Controller
3611-07	3611-09	Officer, Family Planning
4323-23	4323-23	Officer, Ferry
2172-08	2172-09	Officer, Ship dan Deck
2619-05	2619-06	Official Assignee
2144-47	New	Offshore Equipment Engineer
1322-07	New	Offshore Installation Manager
2431-29	New	Offshore Sales Executive
1322-04	1322-04	Oil and Gas Extraction Manager
3117-14	3117-15	Oil and Gas Well Acidiser
3117-12	3117-13	Oil and Gas Wells Explosive Technician
7514-07	7514-07	Oil Expeller
2141-64	New	Oil Mill Engineer
1321-11	New	Oil Mill Manager
3116-04	3116-04	Oil Technologist
7233-06	7233-06	Oiler and Greaser

MASCO 2020	MASCO 2013	JOB TITLE
3142-06	3142-09	Olericulture Technician
2133-07	2133-07	Olericulturist
9211-24	New	Onion Peeler
2512-30	New	OpenText Developer
2411-31	New	Operation Accountant
4419-20	New	Operation Assistant Grade 9
2174-03	New	Operation Centre Controller
2144-40	New	Operation Engineer
2425-12	2425-19	Operation Executive
2114-35	New	Operation Geologist
0131-56	New	Operation Human Intelligence
1615-05	1615-05	Operation Manager, Education
1612-05	1612-05	Operation Manager, Health
2425-16	New	Operation Officer
2146-44	New	Operation Readiness and Assurance (OR&A) Engineer
2421-03	2421-05	Operation Research Analyst
3123-01	3123-01	Operation Supervisor
3112-26	New	Operation Technician
2221-14	2221-16	Operation Theatre Nurse
2413-13	New	Operational Risk Officer
2141-72	New	Operations Commissioning Engineer
1121-24	1323-04	Operations Manager
3111-28	3111-30	Operations Technician, Weather Station
8113-19	New	Operator Assistance – L&PI,II
7422-14	New	Computer Operator Grade 14
8161-91	New	Food Production Operator
8132-11	8132-11	Operator, Audio-Visual Aide
8172-15	8172-15	Operator, Auto-Clipper
8342-01	8342-01	Operator, Backhoe
8342-10	8342-10	Operator, Backhoe Dredger
8221-09	8221-09	Operator, Bending Metal Machine
8171-05	8171-05	Operator, Bleach Machine
3134-15	3134-15	Operator, Blender/petroleum and Natural Gas Refining (Ethyl)
8221-22	8221-22	Operator, Boiler Production Machine
8221-11	8221-11	Operator, Buffing Metal Machine
8342-04	8342-04	Operator, Bulldozer
8221-32	8221-32	Operator, Burnishing Metal Machine
8343-05	8343-06	Operator, Cable Car
8113-02	8113-02	Operator, Cable Drilling Equipment
8221-04	8221-04	Operator, Cable Production Machine
8154-07	8154-07	Operator, Calendar Textile
8132-14	8132-14	Operator, Camera Motion Picture
8132-13	8132-13	Operator, Camera Television
8183-01	8183-01	Operator, Carton
8221-23	8221-23	Operator, Clock Production Machine
8221-28	8221-28	Operator, Commutator Production Machine
8311-04	8311-05	Operator, Commuter
3132-19	New	Operator, Control-Panel: Incinerator
3131-21	New	Operator, Control-Panel: Nuclear Reactor
3131-23	New	Operator, Control-Panel: Power (Production)
3132-20	New	Operator, Control-Panel: Water Treatment
8221-38	8221-38	Operator, Core-Blowing Machine
8221-12	8221-12	Operator, Coremaking Metal Machine
8131-27	8131-27	Operator, Coverter Chemical Processes (Except Petroleum and Natural Gas)
8343-01	8343-02	Operator, Crane
8221-15	8221-15	Operator, Cutting Metal Machine
8132-21	8132-21	Operator, Darkroom
8342-14	8342-14	Operator, Dragline

MASCO 2020	MASCO 2013	JOB TITLE
8113-01	8113-01	Operator, Drilling Equipment
8113-15	New	Operator, Drilling Equipment Rotary
8342-12	8342-12	Operator, Drilling Plant
8221-17	8221-17	Operator, Electric Wiring Machine
8212-16	New	Operator, Electronic Production
8343-04	8343-05	Operator, Elevator Material Handling
8221-36	8221-36	Operator, Engraving Metal Machine
8221-33	8221-33	Operator, Etching Metal Machine
8132-15	8132-15	Operator, Film-Recorder
3132-21	New	Operator, Filter: Water
8221-14	8221-14	Operator, Flamecutting Metal Machine
8221-18	8221-18	Operator, Forging Metal Machine
8161-53	8161-53	Operator, Fractionation Plant
3132-18	New	Operator, Furnace: Refuse Disposal
3131-24	New	Operator, Generator: Electric Power
3131-25	New	Operator, Geo-Thermal Power Plant
8161-70	8161-70	Operator, Germination Equipment Malting
8181-18	8181-18	Operator, Glass Sandblasting Equipment
8342-08	8342-08	Operator, Grader and Scraper Road
8221-35	8221-35	Operator, Grinding Metal Machine
8341-05	8341-05	Operator, Harvester
8343-02	8343-03	Operator, Hoist
6122-13	New	Operator, Incubator (Farm)
8221-27	8221-27	Operator, Jewellery Production Machine
8221-37	8221-37	Operator, Lapping Metal Machine
8311-06	8311-07	Operator, Light Rail Transit
6211-13	6211-14	Operator, Log-Grapple
8112-06	8112-06	Operator, Magnetic Separator
8161-52	8161-52	Operator, Margarine Plant
8221-01	8221-01	Operator, Metal Forming Machine
8221-42	8221-42	Operator, Metal Products Machine
8121-18	8121-18	Operator, Mill Table
8221-43	8221-43	Operator, Minting Metal Machine
8343-07	8343-08	Operator, Mobile Crane
8311-05	8311-06	Operator, Mono-Rail
8341-01	8341-01	Operator, Motorized Farm Equipment
8122-14	8122-14	Operator, Moulding
8221-13	8221-13	Operator, Moulding Metal Machine
8221-26	8221-26	Operator, Nail Production Machine
3131-26	New	Operator, Natural Gas Plant: Electric Power Generating
8221-03	8221-03	Operator, Needle Production Machine
7422-12	7422-12	Operator, Network
8121-17	8121-17	Operator, Non-Ferrous Metal Rolling Mill
3131-27	New	Operator, Nuclear Power Plant
8221-24	8221-24	Operator, Nut Production Metal Machine
8113-04	8113-04	Operator, Oil and Gas Well Derrick
8113-05	8113-05	Operator, Oil and Gas Well Pulling Equipment
8183-02	8183-02	Operator, Packing
8171-10	8171-12	Operator, Paper-Pulp Plant
8132-20	8132-20	Operator, Photographic
8342-03	8342-03	Operator, Piling-Driver
8221-25	8221-25	Operator, Pipe Production Machine
8221-05	8221-05	Operator, Press-Machine Metal Except Forging
8221-06	8221-06	Operator, Press-Machine Punching Metal
8221-07	8221-07	Operator, Press-Machine Stamping Metal
8171-03	8171-03	Operator, Pulp Beater
8171-01	8171-01	Operator, Pulp Digester
3132-22	New	Operator, Purification Plant: Water

MASCO 2020	MASCO 2013	JOB TITLE
8221-10	8221-10	Operator, Reaming Metal Machine
8132-12	8132-12	Operator, Recording Equipment, Sound and Image
3131-28	New	Operator, Rectifier: Electric Current
8221-19	8221-19	Operator, Referring Metal Machine
8181-04	8181-04	Operator, Retort
8221-30	8221-30	Operator, Rivet Production Machine
8221-41	8221-41	Operator, Riveting Machine
8342-06	8342-06	Operator, Road Making Machine
8189-09	8189-09	Operator, Road Marking Equipment
8342-07	8342-07	Operator, Road Roller
8173-06	8173-06	Operator, Sander
8172-01	8172-01	Operator, Sawmill
7621-07	7621-08	Operator, Sewing
8221-16	8221-16	Operator, Sharpening Metal Machine
8221-40	8221-40	Operator, Shearing Metal Machine
8221-08	8221-08	Operator, Spinning Metal Machine
8161-67	8161-67	Operator, Spirit Fermintation Equipment
8221-39	8221-39	Operator, Sports Equipment Metal Machine
8182-05	8182-05	Operator, Steam Boiler Plant
8182-06	8182-06	Operator, Steam Engine
3131-29	New	Operator, Steam Power Plant
8121-31	8121-31	Operator, Steel Fabricator
8131-29	8131-29	Operator, Still Batch (Chemical Processes Except Petroleum and Natural Gas)
8131-30	8131-30	Operator, Still Chemical Processes
8131-31	8131-31	Operator, Still Continuous (Chemical Processes Except Petroleum and Natural Gas)
8131-32	8131-32	Operator, Still Turpentine
3134-16	3134-16	Operator, Still/petroleum and Natural Gas Refining
9333-14	9333-14	Operator, Store
8132-17	8132-17	Operator, Studio Equipment Radio and Television
8161-59	8161-59	Operator, Sugar Processing and Refining
3131-30	New	Operator, Switchboard: Electrical Power Station
3131-31	New	Operator, Switchboard: Power Station Generator
8161-69	8161-69	Operator, Syrup-Mixing Plant
8172-17	8172-17	Operator, Tacky Timber
8342-13	8342-13	Operator, Tamping Machinery Construction
8132-18	8132-18	Operator, Telecine
3131-32	New	Operator, Tidal Power Plant
8221-29	8221-29	Operator, Tool Production Machine
8343-06	8343-07	Operator, Tower Crane
8221-20	8221-20	Operator, Toy Production Metal Machine
8344-01	8344-01	Operator, Truck Forklift
8344-02	8344-02	Operator, Truck Industrial
8344-03	8344-03	Operator, Truck Lifting
8342-11	8342-11	Operator, Tunneling Machinery Construction
3131-33	New	Operator, Turbine: Electricity Generation
8172-14	8172-14	Operator, Veneer Dryer
8132-16	8132-16	Operator, Video Tape-Recorder
9333-17	New	Operator, Warehouse
9121-04	New	Operator, Washing
8221-02	8221-02	Operator, Watches Production Machine
3132-23	New	Operator, Water Purification Plant
8221-34	8221-34	Operator, Welding Metal Machine
8113-03	8113-03	Operator, Well Drilling Equipment
8343-03	8343-04	Operator, Winch
3131-34	New	Operator, Wind-Energy Plant: Electric Power Generation
8221-21	8221-21	Operator, Wire Goods Production Machine
7422-13	7422-13	Operator, Wireless Equipment
7613-02	7613-02	Operator, Wood Machine

MASCO 2020	MASCO 2013	JOB TITLE
6211-12	6211-13	Operator, Yarder
8221-31	8221-31	Operator, Zip Production Machine
8161-17	8161-17	Operator,Dairy Products Sterilizing
3256-14	3256-15	Ophthalmic Assistant
2267-04	2267-04	Ophthalmic Optician
2212-09	2212-09	Ophthalmologist
4312-06	4312-06	Opinion Polling Enumerator
2149-20	2149-20	Optical Engineer
7315-04	7315-05	Optical Glass Cutter
7311-08	7311-08	Optical Instrument Maker
7311-16	7311-16	Optical Instrument Repairer
7639-01	7639-03	Optical Lens Finisher
7639-02	7639-04	Optical Lens Moulder
2267-03	2267-03	Optician
3254-01	3254-01	Optician, Contact-Lens Dispensing
2267-02	2267-02	Optometrist
2267-01	2267-01	Optometry Officer Grade U41
2522-39	New	Oracle Applications Administrator
2511-29	New	Oracle Consultant
2524-20	2511-16	Oracle Database Analyst
2521-07	2521-07	Oracle Database Engineer
2521-08	2521-08	Oracle Database Specialist
2511-26	2511-35	Oracle E-Business Suite Consultant
2511-27	New	Oracle Financials Support Specialist
2511-28	New	Oracle Functional Consultant
2261-17	2261-19	Oral and Maxillofacial Surgeon
2261-12	2261-14	Oral Dentistry Surgeon
2261-18	2261-20	Oral Pathologist
1113-16	1113-16	Orang Besar Berempat
1113-18	1113-18	Orang Besar Berenam Belas
1113-17	1113-17	Orang Besar Berlapan
1113-19	1113-19	Orang Besar Bertiga Puluh Dua
2842-13	2842-13	Orchestra Conductor
2842-07	2842-07	Orchestrator
8351-18	8351-18	Ordinary Seaman
2421-01	2421-03	Organization and Methods Analyst
2141-08	2141-08	Organization and Methods Engineer
2824-06	2824-08	Organizational Psychologist
6113-09	New	Ornametal Plant Grower
2131-35	2131-36	Ornithologist
2261-06	2261-08	Orthodontist
2266-03	2266-03	Orthoepist
2264-11	2264-13	Orthopaedic Physical Therapist
3215-01	3215-01	Orthopaedic Technician
2212-34	2212-34	Orthopaedist
7311-06	7311-06	Orthopedic Appliance Maker
7311-14	7311-14	Orthopedic Appliance Repairer
2221-16	2221-18	Orthopedic Nurse
2266-04	2266-04	Orthophonist
2267-05	2267-05	Orthoptist
3214-03	3214-03	Orthotic Technician
3214-04	3214-04	Orthotist
2269-07	3259-02	Osteopath
2212-64	New	Osteopathist
2371-03	New	Other Religious Education Teacher
2212-35	2212-35	Otolaryngologist
5244-03	5244-03	Outbound Contact Centre Consultant
3623-06	3623-06	Outdoor Adventure Guides

MASCO 2020	MASCO 2013	JOB TITLE
1221-11	New	Outlet Manager
5131-05	5131-05	Outlet Supervisor
8122-13	8122-13	Oxidizer
3134-08	3134-08	Oxygen Plant Operator
6221-14	6221-14	Oyster Farmer
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2141-25	2141-25	Package Design Engineer
2163-09	2163-09	Packaging Designer
2141-30	New	Packaging Engineer
3122-04	3122-04	Packaging Supervisor
2141-18	2141-18	Packaging Technologist
8183-03	8183-03	Packer
9321-01	9321-01	Packer (Hand)
2221-17	2221-19	Paediatric Nurse
2264-10	2264-12	Paediatric Physical Therapist
2212-36	2212-36	Paediatrician
2212-39	2212-39	Paediatrician, Cardiology
2212-37	2212-37	Paediatrician, Gastroenterology
2212-38	2212-38	Paediatrician, Haematology
2212-40	2212-40	Paediatrician, Nephrology
2212-41	2212-41	Paediatrician, Neurology
2212-42	2212-42	Paediatrician, Oncology
2212-43	2212-43	Paediatrician, Respiratory
2261-04	2261-06	Paedodontist
2841-07	2841-07	Paint Artist
2145-06	2145-08	Paint Technologist
7131-01	7131-02	Painter
7131-04	7131-05	Painter, Building
7131-03	7131-04	Painter, Ceramics
7131-02	7131-03	Painter, Glass
7131-07	7131-08	Painter, Manufactured Articles
7131-08	7131-09	Painter, Metal
7131-10	7131-11	Painter, Ship's Hull
7131-05	7131-06	Painter, Structural Steel
0131-22	New	Painters and Decorators
2841-03	2841-03	Painting Restorer
2352-03	2352-03	Painting Teacher
3119-42	New	Painting Technician
2145-07	2145-09	Paints Engineer
2114-28	2114-33	Palaeontologist
2113-29	2113-32	Paleo and Biotratigrapher
9211-22	New	Palm Oil Harvester
5161-02	5161-02	Palmist
7213-09	7213-11	Panel Beater, Aircraft
7213-08	7213-10	Panel Beater, Vehicle
9412-05	9412-05	Pantry Attendant
7323-02	7323-02	Paper Cutter
8171-12	New	Paper Pulp Refinery Operator
2145-18	2145-21	Paper Technologist
8143-08	8143-08	Papier Mache Moulder
3134-09	3134-09	Paraffin Plant Operator
3411-04	3411-08	Paralegal
2241-01	2241-01	Paramedic
0131-39	2241-01	Paramedics
3212-12	3212-13	Parasitological Assistant
2131-36	2131-37	Parasitologist
1621-04	1621-04	Park Manager

MASCO 2020	MASCO 2013	JOB TITLE
5419-03	5419-04	Park Warden, Animal Recreation
3142-20	New	Park/Estate Assistant Grade G19
1311-01	New	Park/Estate Manager Grade G41
2619-10	2619-11	Parliamentary Drafter
2619-13	New	Parliamentary Secretary
2825-09	2825-10	Parole Officer
3611-05	3611-07	Parole Officer, Associate Professional
7122-04	7122-04	Parquetry Worker
9621-20	New	Part Assistant
5112-06	5112-07	Passenger Guard, Train
3711-04	3711-04	Passport Checking Officer
5419-26	3714-05	Passport Issuing Assistant
2914-04	2914-06	Passport Issuing Officer
7512-07	7512-07	Pasta Maker
7512-02	7512-02	Pastry Baker
3641-08	3641-11	Pastry Chef
5414-19	New	Volunteer Team Malaysia (RELA)
2431-06	2431-06	Patent Agent
2134-22	2134-22	Pathologist
2134-24	2134-24	Pathologist, Animal
2134-26	2134-26	Pathologist, Clinical
2134-23	2134-23	Pathologist, Forensic
2134-25	2134-25	Pathologist, Histopathology
2134-29	2134-29	Pathologist, Medical
2134-27	2134-27	Pathologist, Neuropathology
2134-30	2134-30	Pathologist, Plant
2134-28	2134-28	Pathologist, Surgical
2134-31	2134-31	Pathologist, Veterinary
3344-08	3344-08	Pathology Secretary
3212-10	3212-11	Pathology Technician
5321-10	5321-10	Patient Care Assistant
3344-04	3344-04	Patient Care Secretary
2163-18	New	Pattern Specialist
7622-16	7622-16	Pattern-Maker, Fur
7622-01	7622-01	Pattern-Maker, Garment
7622-14	7622-14	Pattern-Maker, Gloves
7622-02	7622-02	Pattern-Maker, Hat
7622-15	7622-15	Pattern-Maker, Mattres
7222-02	7222-04	Pattern-Maker, Metal Foundry
7622-10	7622-10	Pattern-Maker, Paper
7622-12	7622-12	Pattern-Maker, Sails
7623-06	7623-06	Pattern-Maker, Shoe
7622-11	7622-11	Pattern-Maker, Tents
7622-13	7622-13	Pattern-Maker, Umbrella
7612-12	7612-13	Pattern-Maker, Wood Patterns
3123-07	New	Paving Supervisor
7112-03	7112-03	Paviour
4213-01	4213-01	Pawnbroker
4313-03	4313-03	Paymaster
4214-01	4214-01	Payment Collector
4132-06	4132-09	Payment Entry Clerk
2413-22	2411-42	Payroll Analyst
4313-01	4313-01	Payroll Clerk
2411-30	2411-43	Payroll Executive
4313-04	4313-04	Payroll Processor
6221-15	6221-15	Pearl Cultivator
6221-03	6221-03	Pearl Culturist
9331-02	9331-02	Pedal Vehicle Driver

MASCO 2020	MASCO 2013	JOB TITLE
5142-05	5142-05	Pedicurist
9521-02	9521-02	Pedlar
9216-05	9216-05	Peeler, Anchovy
9211-15	9211-17	Peeler, Coconut
6211-19	6211-20	Peeler, Log
9211-18	9211-20	Peeler, Nuts
9211-17	9211-19	Peeler, Pineapple
9211-16	9211-18	Peeler, Potato
2611-19	New	Executive Officer (Legal) Grade 48
2262-07	New	Pharmacist Grade UF44
7625-01	7625-01	Pelt Dressers
2531-22	New	Penetration Tester (Information Technology)
2524-16	New	Business Data Analyst
1113-03	1113-03	Penggawa
2822-05	2822-07	Penologist
2511-30	New	Peoplesoft Consultant
2511-31	New	Peoplesoft Financials Functional Consultant
7234-05	7234-05	Perambulator Repairer
7323-11	7323-11	Perfect Binding Operator
2269-04	New	Perfusionist
2261-10	2261-12	Periodontist
2175-03	2175-03	Permanent-Way Inspector (Railways)
3343-04	3343-04	Personal Assistant
5322-04	5322-04	Personal Care Provider
1622-01	1622-01	Personal Care Services Manager
2152-21	2152-34	Personal Computer Motherboard Designer
3512-02	3512-02	Personal Computer Support Technician
3623-08	3623-08	Personal Trainer
4416-05	4416-06	Personnel Assistant
3341-08	3341-08	Personnel Clerks Supervisor
2423-11	2423-11	Personnel Consultant
1212-06	1212-05	Personnel Manager
2423-02	2423-02	Personnel Officer
2423-01	2423-01	Personnel Safety Officer
1113-14	1113-14	Perut
7634-01	7634-01	Pest Controller
4414-01	4414-01	Petition Writer
5245-01	5245-01	Petrol Pump Attendant
3116-08	3116-08	Petroleum and Natural Gas Analyst
2146-17	2146-17	Petroleum and Natural Gas Engineer
3117-13	3117-14	Petroleum and Natural Gas Extraction Assistant
3117-03	3117-04	Petroleum and Natural Gas Extraction Technician
3134-11	3134-11	Petroleum and Natural Gas Refining Treater Operator
2146-34	New	Petroleum Economist
2146-18	2146-18	Petroleum Engineer
3116-03	3116-03	Petroleum Engineering Technician
2114-31	New	Petroleum Geoscientist
2146-06	2146-06	Petroleum Mining Engineer
3134-18	3134-18	Petroleum Process Operator
3134-10	3134-10	Petroleum Refining Blender
3116-07	3116-07	Petroleum Refining Laboratory Assistant
3116-06	3116-06	Petroleum Refining Technician
2114-09	2114-14	Petrologist
2113-33	2113-36	Petrophysicist
7313-04	7313-04	Pewtersmith
3213-01	3213-01	Pharmaceutical Assistant
3213-02	3213-02	Pharmaceutical Laboratory Assistant
2145-10	2145-12	Pharmaceutical Products Chemical Engineer

MASCO 2020	MASCO 2013	JOB TITLE
3213-03	3213-03	Pharmaceutical Technician
2262-02	2262-03	Pharmacist
2262-01	2262-01	Pharmacist Grade UF41
2262-08	New	Pharmacokinetic Analyst
2134-17	2134-17	Pharmacologist, Toxicology
2134-18	2134-18	Pharmacologist, Veterinary
2134-16	2134-16	Pharmacologists
3141-16	3141-16	Pharmacology Technician
3213-04	3213-04	Pharmacy Aide
3213-06	2262-08	Pharmacy Assistant
2311-17	New	Pharmacy Lecturer Grade DUF45
2311-34	New	Pharmacy Lecturer Grade DUF51
2311-35	New	Pharmacy Lecturer Grade DUF53
2311-42	New	Pharmacy Lecturer Grade Khas C
0111-03	0111-03	Pharmacy Officer
2833-04	2833-05	Philologist
2823-01	2823-01	Philosopher
5321-14	5329-03	Phlebotomist
8132-19	8132-19	Photo Finisher
2841-10	2841-10	Photo Restorer
3119-34	New	Photocopier Technician
7324-04	7324-04	Photo-Engraver
2165-05	2165-06	Photogrammetrist
8132-27	8132-27	Photograph Enlarger
8132-28	8132-28	Photograph Printer
3631-02	3631-03	Photographer
3631-15	New	Photographer Grade B19
3631-17	New	Photographer Grade B21
3631-18	New	Photographer Grade B25
3631-16	New	Photographer Grade B29
3631-19	New	Photographer Grade B31
3631-20	New	Photographer Grade B37
3631-21	New	Photographer Grade B39
7311-04	7311-04	Photographic Equipment Maker
8132-23	8132-23	Photographic Film Printer
8132-22	8132-22	Photographic Processor
2165-11	2165-12	Photographic Surveyor
3631-06	3631-07	Photo-Journalist
2141-42	New	Photonic Engineer
1321-21	1322-07	Photovoltaic Manager
2141-36	New	Physical Design Engineer
2152-12	2152-22	Physical Design Verification Engineer
3623-01	3623-01	Physical Fitness Instructor
2114-39	New	Physical Oceanographer
3255-07	3255-07	Physical Rehabilitation Technician
3111-11	3111-13	Physical Science Laboratory Assistant
3111-08	3111-10	Physical Science Technician
2264-04	2264-06	Physical Therapist
0131-07	0321-17	Physical Trainer (MA)
0321-24	0321-17	Physical Trainer (RMAF)
2212-44	2212-44	Physician
2211-16	2211-18	Physician (General)
2212-49	2212-49	Physician, Cardiology
2212-45	2212-45	Physician, Dermatology
2212-46	2212-46	Physician, Endocrinology
2212-53	2212-53	Physician, Family Medicine
2212-47	2212-47	Physician, Gastroenterology
2212-48	2212-48	Physician, Haematology

MASCO 2020	MASCO 2013	JOB TITLE
2212-50	2212-50	Physician, Nephrology
2212-51	2212-51	Physician, Neurology
2212-54	2212-54	Physician, Respiratory Medicine
2212-52	2212-52	Physician, Rheumatology
2111-01	2111-01	Physicist
2111-11	2111-11	Physicist, Acoustics
2111-25	2111-25	Physicist, Astronomer
2111-20	2111-20	Physicist, Atomic
2111-05	2111-05	Physicist, Ballistics
2111-17	2111-17	Physicist, Electricity and Magnetism
2111-18	2111-18	Physicist, Electronics
2111-14	2111-14	Physicist, Heat
2111-06	2111-06	Physicist, Hydrodynamics
2111-13	2111-13	Physicist, Light
2111-08	2111-08	Physicist, Mechanics
2111-15	2111-15	Physicist, Medical
2111-21	2111-21	Physicist, Molecular
2111-19	2111-19	Physicist, Nuclear
2111-27	2111-27	Physicist, Rheology
2111-07	2111-07	Physicist, Solid-State
2111-12	2111-12	Physicist, Sound
2111-02	2111-02	Physicist, Theoretical
2111-16	2111-16	Physicist, Thermodynamics
3111-09	3111-11	Physics Laboratory Assistant
3111-07	3111-09	Physics Science Laboratory Technician
3111-04	3111-06	Physics Technician
2134-13	2134-13	Physiologist, Animal
2134-11	2134-11	Physiologist, Endocrinology
2134-12	2134-12	Physiologist, Epidemiology
2134-14	2134-14	Physiologist, Neurology
2134-15	2134-15	Physiologist, Plant
2134-10	2134-10	Physiologists
3212-09	3212-10	Physiology Technician
2264-14	New	Physiotherapist
0131-48	New	Physiotherapist Medical
3255-01	3255-01	Physiotherapy Assistant
2264-06	2264-08	Physiotherapy Masseur
2264-13	New	Physiotherapy Officer Grade 23
3255-06	3255-06	Physiotherapy Technician
1612-10	New	Phytonutrients Manager
7312-04	7312-04	Piano Maker
9312-05	9312-05	Piling Worker
2173-03	2173-04	Pilot
2173-01	2173-01	Pilot/ Pilot Examiner Grade AT41
2173-12	New	Pilot/Pilot Examiner Grade AT43
2173-13	New	Pilot/Pilot Examiner Grade AT47
2173-14	New	Pilot/Pilot Examiner Grade AT51
2173-15	New	Pilot/Pilot Examiner Grade AT53
7126-02	7126-05	Pipe Fitter
7126-06	7126-09	Pipe Fitter, Marine
7126-05	7126-08	Pipe Fitter, Sewerage
7126-07	7126-10	Pipe Fitter, Ventilation
7126-04	7126-07	Pipe Fitter, Water Supply
7126-10	7119-02	Pipe Layer
2146-48	New	Pipe Stress Engineer
7126-03	7126-06	Pipe Tube Fitter, Aircraft
0131-19	New	Pipe Worker
2146-37	New	Pipeline Corrosion Engineer

MASCO 2020	MASCO 2013	JOB TITLE
2146-23	New	Pipeline Engineer
2146-45	New	Pipeline Mechanical Engineer
2146-46	New	Pipeline Project Engineer
2146-47	New	Pipeline SCADA and Simulations Engineer
1324-15	New	Piping System Manager
2142-44	New	Piping/Gas Oil Hydrotreating Engineer
2131-37	2131-38	Pisciculturist
7231-25	New	Pit Crew
2142-55	New	Plan and Audit Engineering Design
3323-01	3323-01	Planning and Distribution Executive
2141-09	2141-09	Planning Engineer
1213-09	New	Planning Manager
0131-23	New	Plant Driver
2141-24	2141-24	Plant Engineer
3134-20	New	Plant Field Operator
1322-12	New	Plant Manager, Mining
3142-08	3142-11	Plant Nursery Technician
8182-01	8182-01	Plant Operator Grade H11
8112-10	8112-10	Plant Processing Operator, Mineral and Stone
0131-25	New	Plant Supervisor
1311-03	1311-03	Plantation Manager
4321-20	4321-20	Plantation Stock Clerk
9213-03	New	Plantation Worker
2132-06	2132-10	Planting Adviser
2144-52	New	Plasma Arc Welding Specialist
2141-46	New	Plasma Enhance Chemical Vapour Deposition Engineer
7123-01	7123-01	Plasterer
7123-03	7123-03	Plasterer, Fibrous
7123-04	7123-04	Plasterer, Ornamental
7123-05	7123-05	Plasterer, Solid
7123-02	7123-02	Plasterer, Stucco
2163-11	New	Plastic Mould Designer
2145-15	2145-18	Plastics Technologist
7321-09	7321-10	Plat Maker (Printing)
2152-16	2152-29	Platform Signal Integrity Engineer
2144-41	New	Platform Superintendents
2831-04	2831-04	Playwright
3511-35	New	PLC Assistant Engineer (Programmable Logic Controller)
2514-37	New	PLC Engineer (Programmable Logic Controllers)
2512-40	New	PLC Engineer (Programmable Logic Controller)
7126-01	7126-04	Plumber
7212-04	7212-06	Plumbum Burner
8172-09	8172-09	Plywood Core Layer
3122-09	3122-09	Plywood Inspection Supervisor
7232-11	7232-11	Pneudraulic Systems Mechanic (Aircraft)
3151-12	3151-13	Pneudraulic Systems Technician (Aircraft)
2212-55	2212-55	Podiatrist
2831-10	2831-10	Poet
8312-06	8312-06	Pointsman, Railway
1112-34	1112-39	Police Commissioner
3715-02	3715-03	Police Detective
3715-04	3715-05	Police Inquiry Agent
3715-01	3715-02	Police Inspector
5412-09	New	Police Lans Corporal
3715-03	3715-04	Police Officer
5412-04	5412-04	Police Patrol
3715-05	3715-06	Police Patrol Officer

MASCO 2020	MASCO 2013	JOB TITLE
5412-03	5412-03	Police Volunteer
2422-02	2422-02	Policy Analyst
1213-01	1213-01	Policy and Planning Manager
1213-04	1213-04	Policy and Research Manager
2422-05	2422-05	Policy Executive
2422-04	2422-04	Policy Officer
8181-33	8181-33	Polisher, Plate-Glass
7113-09	7113-10	Polisher, Stone
7612-15	7612-16	Polisher, Wood
2832-04	2832-08	Political Editor
2823-02	2823-02	Political Philosopher
2823-04	2823-04	Political Scientist
3257-38	3257-38	Pollution Control Inspector
2145-16	2145-19	Polymer Technologist
2133-08	2133-08	Pomologist
3142-07	3142-10	Pomology Technician
9216-03	9216-03	Ponds Worker, Shrimp
2172-05	2172-06	Port Captain
9621-15	9621-18	Porter
9621-05	9621-08	Porter, Luggage
9333-09	9333-09	Porter, Warehouse
2841-11	2841-11	Portrait Painter
4211-08	4211-09	Post Office Counter Clerk
4211-01	4211-01	Postal Clerk
2341-01	2341-01	Post-Diploma Education Service, Officer Grade DGA29
3632-04	3632-04	Poster Designer
4412-01	4412-01	Postman/Woman
1112-36	1112-41	Postmaster General
9621-17	9621-20	Post-Runner
2152-22	2152-35	Post-Silicon Validation Engineer
3631-14	3631-15	Potrait Photographer
7314-01	7314-01	Potter
3142-14	3142-17	Poultry Technical Officer
7131-11	New	Powder Coating Painter
2151-11	2151-13	Power Distribution and Transmission Engineer
3131-04	3131-04	Power Generating Plant Operator
2151-07	2151-09	Power Generation Engineer
1321-26	New	Power Generation Plant Manager
2511-48	2511-63	Power Integrated Circuit(IC) Designer (Information Technology)
1321-27	New	Power Station Manager
2151-33	New	Power Supply Design Engineer
3131-13	3131-13	Power System Operator
3131-06	3131-06	Powerhouse Fabricator
7232-12	7232-12	Powerplant Mechanic (Aircraft)
3151-13	3151-14	Powerplant Technician (Aircraft)
2361-04	2361-04	Practical Language Teacher
3221-04	3221-04	Practical Nurse
5131-02	5131-02	Pramusaji
5131-11	New	Pramusaji Grade K3
3612-03	3612-04	Preacher
7313-09	7313-09	Precious Metal Roller
7311-01	7311-01	Precision Instrument Maker
7613-05	7613-06	Precision Woodworking Sawyer
7214-08	7214-08	Preparer, Structural Metal
2342-01	2342-01	Pre-Primary School Teacher
2182-14	New	Presales Storage Consultant
3322-11	3322-20	Pre-Sales Support
5312-03	5312-03	Pre-school Assistant

MASCO 2020	MASCO 2013	JOB TITLE
2342-03	2342-03	Pre-school Teacher
2846-09	2846-09	Presentation Support Assistant
8161-57	8161-57	Preserver, Sauces and Condiments
1121-27	1121-26	President
1114-04	1114-04	President of Congress of Union of Employees in the Public and Civil Services
1114-02	1114-02	President of Employers' Federation
1112-31	1112-33	President of Local Authority
1121-21	1121-19	President of Organization
1114-01	1114-01	President of Political Party
1111-12	1111-12	President of The Senate
1114-03	1114-03	President of Trades Union Congress
2612-09	New	President, Industrial Court
2152-13	2152-23	Pre-Silicon Validation Engineer
2832-12	2832-16	Press Editor
2432-10	2432-11	Press Liaison Officer
7321-05	7321-06	Press Line Worker
2432-09	2432-10	Press Officer
3631-05	3631-06	Press Photographer
7314-02	7314-02	Presser, Brick and Tile
7314-08	7314-08	Presser, Pottery and Porcelain
8142-02	8142-02	Press-Machine Operator, Plastics Laminating
8221-55	New	Press-Operator
8131-18	8131-18	Press-Operator, Chemical Processes Filter
8181-19	8181-19	Press-Operator, Clay Filtering
8161-43	8161-43	Press-Operator, Edible Oils
7322-04	7322-04	Press-Operator, Embossing
8161-42	8161-42	Press-Operator, Fruit
8141-03	8141-03	Press-Operator, Moulding Rubber
8172-10	8172-10	Press-Operator, Plywood
2331-04	2331-04	Pre-University Teacher
2141-43	New	Preventive Maintenance Engineer (Facility)
3719-02	3719-04	Price Inspector
2121-12	New	Pricing Actuarie
2413-05	New	Pricing Analyst
2826-06	2826-07	Priest, Church
2826-07	2826-08	Priest, Temple
2241-05	2241-05	Primary Care Paramedic
2341-02	2341-02	Primary School Teacher
1111-01	1111-01	Prime Minister
1615-03	1615-03	Principal
2531-38	New	Principal Security Engineer
1615-11	1615-11	Principal, College
1615-12	1615-12	Principal, School
1615-13	1615-13	Principal, University
2152-14	2152-27	Printed Circuit Board (PCB) Design Engineer
7322-01	7322-01	Printer
7322-19	7322-19	Printer, Wallpaper
7322-20	7322-20	Printing Operator
7322-14	7322-14	Printing Press-Operator, Offset
7322-13	7322-13	Printing Press-Operator, Cylinder
7322-17	7322-17	Printing Press-Operator, Direct Lithographic
7322-15	7322-15	Printing Press-Operator, Rotary
7322-16	7322-16	Printing Press-Operator, Rotogravure
7322-18	7322-18	Printing Press-Operator, Wallpaper
3119-33	New	Printing Technician
0131-61	New	Printing Technician
2141-19	2141-19	Printing Technologist
2151-21	2151-23	Prismatic Research Engineer

MASCO 2020	MASCO 2013	JOB TITLE
5413-01	5413-01	Prison Officer Grade KA19
4223-02	4223-02	Private Branch Exchange Telephone Operator
3715-06	3411-04	Private Detective
3715-07	3411-05	Private Investigator
2825-10	2825-11	Probation Officer
3611-06	3611-08	Probation Officer, Associate Professional
2152-41	New	Process Computer Control Engineer (PCC)
2141-71	New	Process Control and Instrument Engineer
2145-23	New	Process Control Engineer
2163-16	New	Process Designer
2141-29	New	Process Development Engineer
2141-68	2149-10	Process Engineer
3112-17	New	Process Instrument Technician
4412-04	4412-04	Process Dispatch
2141-70	New	Process Simulation Engineer
3111-38	3119-19	Process Technician
3119-24	New	Process Technician Grade K2
3323-05	3323-05	Procurement Agent
2141-65	New	Procurement Engineer
3323-06	3323-06	Procurement Executive
1211-21	New	Procurement Manager
2141-66	New	Procurement Manufacturing Engineer
3323-08	3323-08	Procurement Officer
3634-07	3639-02	Producer Grade B19
3634-18	New	Producer Grade B21
3634-19	New	Producer Grade B25
3634-20	New	Producer Grade B29
3634-21	New	Producer Grade B31
3634-22	New	Producer Grade B37
2844-01	2844-02	Producer Grade B41
2844-19	New	Producer Grade B43
2844-20	New	Producer Grade B47
2844-21	New	Producer Grade B51
2844-22	New	Producer Grade B53
6221-16	6221-16	Producer, Crackers
6121-04	6121-04	Producer, Dairy
6221-18	6221-18	Producer, Fishball
6121-07	6121-09	Producer, Livestock
6221-11	6221-11	Producer, Marine Product
2844-10	2844-11	Producer, Motion Picture
6221-17	6221-17	Producer, Otak-Otak
6221-21	New	Producer, Salted Fish
2844-14	2844-15	Producer, Television
2182-30	New	Product Analyst, Halal Industry
2431-23	3322-17	Product Brand Executive
2152-15	2152-28	Product Characterization Engineer
2146-43	New	Product Design Research and Development Engineer
2163-12	New	Product Designer
2434-09	2434-09	Product Development Engineer
1223-02	1223-02	Product Development Manager
2141-52	2434-06	Product Engineer
1221-07	1221-06	Product Manager
2182-13	New	Product Planner
2519-03	2519-03	Product Quality Assurance Engineer (Information Technology)
2182-12	New	Product Quality Controller
3257-12	3257-12	Product Quality Inspector
2434-03	2434-03	Product Support Engineer
2434-07	2434-07	Product Support Officer

MASCO 2020	MASCO 2013	JOB TITLE
2411-32	New	Production Accountant
1214-03	1214-02	Production and Business Operation Manager
1311-05	New	Production and Operation Manager, Agricultural
1622-06	1622-06	Production and Operation Manager, Cleaning
1511-09	New	Production and Operation Manager, Communications
1323-02	1323-02	Production and Operation Manager, Construction
1624-07	1624-07	Production and Operation Manager, Cultural Activities
1312-02	1312-02	Production and Operation Manager, Fishery
1311-10	New	Production and Operation Manager, Forestry
1411-05	1411-06	Production and Operation Manager, Hotel
1311-07	New	Production and Operation Manager, Livestock
1321-02	1321-02	Production and Operation Manager, Manufacturing
1322-01	1322-01	Production and Operation Manager, Mine
1322-03	1322-03	Production and Operation Manager, Oil and Gas Extraction
1622-07	1622-07	Production and Operation Manager, Personal Care Services
1322-02	1322-02	Production and Operation Manager, Quarry
1412-07	1412-07	Production and Operation Manager, Restaurant
1421-02	1421-02	Production and Operation Manager, Retail Trade
1421-13	1421-16	Production and Operation Manager, Retail Trade (Store)
1621-17	1621-17	Production and Operation Manager, Stage
1324-12	1324-10	Production and Operation Manager, Storage
1324-07	1324-05	Production and Operation Manager, Transport
1324-09	1324-07	Production and Operation Manager, Transport (Freight Traffic)
1324-10	1324-08	Production and Operation Manager, Transport (Passenger Traffic)
1324-08	1324-06	Production and Operation Manager, Transport (Pipeline)
1421-08	1421-09	Production and Operation Manager, Wholesale Trade
1421-14	1421-17	Production and Operation/Retail Trade (Supermarket)
9622-07	New	Production Assistant
3521-04	3521-04	Production Assistant (Media)
1214-06	1214-05	Production Controller
1322-09	New	Production Controller, Mining
9622-06	New	Production Crew
2141-04	2141-04	Production Engineer
2182-05	2182-05	Production Executive
2182-20	New	Production Executive, Halal Food Manufacturing
1214-02	1214-01	Production Manager
1321-28	New	Production Manager, Chemicals
1321-07	New	Production Manager, Food Processing
1321-29	New	Production Manager, Gas Supply
1321-13	New	Production Manager, Halal Meat Processing
1321-30	New	Production Manager, Oil Refinery
1321-31	New	Production Manager, Petroleum Refinery
1321-32	New	Production Manager, Power Generation
1622-21	New	Production Manager, Waste Management
1622-22	New	Production Manager, Water Supply and Treatment
8189-02	8189-02	Production Operator
8189-13	New	Production Operator Grade K3
8189-11	8189-11	Production Operator, Electronic Product
8161-92	New	Production Operator, Halal Food Manufacturing
8161-93	New	Production Operator, Halal Meat Processing
1214-05	1214-04	Production Planner
4322-19	New	Production Site Coordinator
2182-22	New	Production Specialist
3122-02	3122-02	Production Supervisor
3122-18	New	Production Supervisor, Halal Food Manufacturing
3119-26	New	Production Technician
2146-33	New	Production Technologist
3341-24	New	Production Trainee

MASCO 2020	MASCO 2013	JOB TITLE
2222-01	2222-01	Professional Midwife
2221-02	2221-03	Professional Nurse
2392-06	2392-06	Professional Remedial Teacher
2231-01	2231-01	Professional Traditional Medical Practitioner
2311-10	2311-12	Professor
2311-15	New	Professor, College
2311-14	New	Professor, University
7321-06	7321-07	Profiling Line Worker
3634-10	3639-06	Program Coordinator (Broadcasting)
2432-21	New	Program Management Officer
1213-07	New	Programme Manager
2846-10	2846-10	Programme Preparer
2411-33	New	Project Accountant
2425-17	New	Project Coordinator
2141-67	2149-09	Project Engineer
1213-06	New	Project Leader
1214-14	1323-05	Project Manager
1213-05	New	Project Planning Manager
3123-02	3123-02	Project Supervisor
3634-11	3639-07	Prompter
2831-20	2831-20	Proofreader
4413-01	4413-01	Proof-Reader Clerk
3334-02	3334-02	Property Agent
4311-19	4311-20	Property Clerk
2412-10	2412-12	Property Executive
1618-01	1618-01	Property Maintenance Manager
1618-02	1618-02	Property Manager
3634-12	3639-08	Property Master (Broadcasting)
3334-04	3334-04	Property Negotiator
3334-03	3334-03	Property Realtor
2611-08	2611-19	Prosecutor
2212-56	2212-56	Prostheist
3215-02	3215-02	Prosthetic Technician
2261-08	2261-10	Prosthodontist
2151-32	New	Protection Engineer
0321-23	New	Provost
5321-11	5321-11	Psychiatric Aide
2221-18	2221-20	Psychiatric Nurse
2212-08	2212-08	Psychiatrist
2824-03	2824-05	Psychologists
2824-01	2824-01	Psychology Officer Grade S41
2824-07	2824-09	Psychotherapist
2411-11	2411-15	Public Accountant
9622-09	New	Public Asssistant Grade H11
5321-02	3256-01	Public Health Assistant Grade U19
3251-02	3251-03	Public Health Dental Nurse
2265-04	2265-04	Public Health Dietician
3257-01	3257-01	Public Health Inspector
2221-08	2221-09	Public Health Nurse
2265-08	2265-08	Public Health Nutritionist
3257-04	3257-04	Public Health Restaurant Inspector
3257-02	3257-02	Public Health Safety Inspector
3257-03	3257-03	Public Health Unit Inspector
2251-05	2251-06	Public Health Veterinarian
2432-05	2432-06	Public Relations Executive
1222-04	1222-04	Public Relations Manager
2432-02	2432-03	Public Relations Officer
2425-04	2425-11	Public Service Commission Officer

MASCO 2020	MASCO 2013	JOB TITLE
2619-04	2619-05	Public Trustee
4414-02	4414-02	Public Writer
4413-05	3639-01	Publication Assistant Grade N19
4413-03	4413-04	Publication Clerk
2543-06	2166-13	Publication Designer
2831-23	2832-02	Publications Officer Grade N41
2432-07	2432-08	Publicity Agent
2831-15	2831-15	Publicity Writer
3132-05	3132-05	Pumping Station Operator
3134-12	3134-12	Pumping-Station Petroleum and Natural Gas Operator
3134-24	New	Pumpman
3134-01	3134-01	Pumpman (Petroleum Refining)
5312-01	New	Pupils Management Assistant Grade N19
2847-10	2847-11	Puppeteer
3323-07	3323-07	Purchasing Agent
4321-41	New	Purchasing Clerk, Halal Meat Processing
3323-02	3323-02	Purchasing Executive
3323-11	New	Purchasing Executive, Halal Food Manufacturing
3323-12	New	Purchasing Executive, Halal Meat Processing
1324-06	1219-01	Purchasing Manager
1324-23	New	Purchasing Manager, Halal Meat Processing
3323-10	3323-10	Purchasing Merchandiser
3323-13	New	Purchasing Team Leader
		Q
2542-03	New	QA Tester/Game Tester (Digital)
2182-03	2182-03	Quality Assurance Analyst
2519-04	2519-04	Quality Assurance Analyst (Information Technology)
4322-31	New	Quality Assurance Assistant Grade K1
2149-16	2149-11	Quality Assurance Engineer
3119-28	New	Quality Assurance Engineering Technician
2182-02	2182-02	Quality Assurance Executive
2519-05	2519-05	Quality Assurance Executive (Information Technology)
2182-21	New	Quality Assurance Executive, Halal Meat Processing
1216-02	1219-03	Quality Assurance Manager
1216-03	New	Quality Assurance Manager, Halal Food Manufacturing
1216-04	New	Quality Assurance Manager, Halal Meat Processing
2182-15	New	Quality Assurance Officer Grade P3
3122-19	New	Quality Assurance Supervisor, Halal Food Manufacturing
3122-20	New	Quality Assurance Supervisor, Halal Meat Processing
2149-21	New	Quality Assurance/Quality Control Inspection Engineer (QA/QC)
3122-17	3122-17	Quality Checker Tester
7516-04	7516-04	Quality Checker, Cigarette
2149-17	2149-12	Quality Control Engineer
2182-04	2182-04	Quality Control Executive
3122-14	3122-14	Quality Control Inspector
1216-01	1219-02	Quality Control Manager
3122-15	3122-15	Quality Control Supervisor
3119-19	3119-27	Quality Control Technician
3122-16	3122-16	Quality Controller
2149-09	2149-25	Quality Engineer
2519-06	2519-06	Quality Engineer (Information Technology)
7633-02	7633-02	Quality Inspector
7515-20	New	Quality Inspector, Halal Meat Processing
2149-11	New	Quality Management System Engineer (QMS)
3112-31	3119-07	Quantity Surveying Technician
2142-48	2149-08	Quantity Surveyor
3112-33	New	Quantity Surveyor Assistant

MASCO 2020	MASCO 2013	JOB TITLE
2142-53	New	Quantity Surveyor Grade 23
2142-45	2149-01	Quantity Surveyor Grade J41
1323-19	New	Quantity Surveyor Manager
2263-19	2263-19	Quarantine Officer - Public Health
8111-02	8111-02	Quarier
1322-06	1322-06	Quarry Manager
3121-02	3121-02	Quarry supervisor
		R
3621-11	3621-11	Race Driver
1621-09	1621-09	Racecourse Manager
1621-18	1621-18	Racing Car Manager
0131-34	New	Radar Operator
3257-39	3257-39	Radiation Monitor
2263-22	2263-22	Radiation Protection Expert
1121-14	1121-12	Radio & Television Manager, Programme
2844-07	2844-08	Radio and Television Broadcasting Director
3521-15	3521-15	Radio and Television Broadcasting Equipment Technician
2844-08	2844-09	Radio and Television Director
1121-13	1121-11	Radio and Television Manager, Broadcasting,
2832-05	2832-09	Radio and Television News Broadcasting Editor
3521-19	3521-19	Radio and Television Transmitting Equipment Technician
2846-02	2846-02	Radio Announcer
2153-14	New	Radio Engineer
2511-49	2511-64	Radio Frequency (RF) Integrated Circuit (IC) Design Engineer (Information Technology)
2151-27	New	Radio Frequency Electrical Engineer (RF)
2152-28	New	Radio Frequency Electronic Engineer (RF)
2523-08	New	Radio Network Planning Consultant
2153-16	New	Radio Optimisation and Capacity Engineer
2146-50	New	Radioactive Expert
3211-02	3211-02	Radiographer
0131-44	New	Radiographer
3211-01	3211-01	Radiographer Grade U29
3256-05	3256-06	Radiographist Equipment
3256-06	3256-07	Radiographist Equipment, Medical, General
2212-57	2212-57	Radiologist
2212-58	2212-58	Radiologist, Diagnostic
2212-59	2212-59	Radiologist, Interventional
2212-60	2212-60	Radiologist, Nuclear Medicine
2212-61	2212-61	Radiologist, Radiotherapy
3211-03	3211-03	Radiology Technician
2212-07	2212-07	Radiotherapy Oncologist
3153-08	New	Rail Rolling Stocks Technician
2175-02	2175-02	Railway and Locomotive Operation Controller
2175-01	2175-01	Railway and Locomotive Operation Officer
8311-02	8311-03	Railway Driver
5112-07	5112-08	Railway Guard
3153-05	3153-05	Railway Inspector
2152-03	2152-05	Railway Signal Engineer
1324-01	1324-01	Railway Station Master
3153-02	3153-02	Railway Supervisor
8351-13	8351-13	Ram Controller
6211-23	New	Ranger, Forest
4312-24	4312-25	Rating Clerk
7317-08	7317-09	Rattan Furniture Maker
4321-01	4321-01	Raw Material Clerk
9321-13	New	Raw Material Handler
4321-07	4321-07	Raw Material Store Clerk

MASCO 2020	MASCO 2013	JOB TITLE
8131-37	8131-37	Reactor-Convertor (Chemical Processes)
3334-01	3334-01	Real Estate Agent
3315-08	3315-09	Real Estate Appraiser
1618-03	1618-03	Real Estate Manager
3334-06	3334-06	Real Estate Salesperson
1112-40	New	Rear Admiral Maritime
4321-04	4321-04	Receiving Clerk
4224-01	4224-01	Receptionist
4132-02	4132-03	Records Clerk
1621-02	1621-02	Recreation Manager
5419-06	5419-07	Recreation Supervisor
1212-07	1212-06	Recruitment Manager
7413-06	7413-11	Rectifier System Worker
9612-09	New	Recycler
9612-02	9612-02	Recycling Worker
7234-03	7234-03	Reel Repairer
3622-03	3622-07	Referee
3134-17	3134-17	Refinery Process Technician
3231-09	New	Reflexologist
7112-07	7112-07	Refractory Bricklayer
1412-10	1412-10	Refreshment Room Manager
3115-10	3115-12	Refrigeration and Air-Conditioning System Engineering Technician
7127-01	7127-02	Refrigeration Equipment Mechanic
2112-13	2112-14	Refrigeration Service Specialist
3132-07	3132-07	Refrigeration System Operator
9612-04	9612-04	Refuse Sorter
2431-28	New	Regional Sales Executive
2511-42	2511-57	Register Transfer Level (RTL) Designer (Information Technology)
2152-39	New	Register-transfer Level Designer (RTL)
2619-02	2619-03	Registrar of Court
5419-29	3719-02	Registration Assistant Grade KP19
2919-02	2919-05	Registration Officers Grade KP41
1213-08	New	Regulatory Affairs Manager
5419-19	New	Rehabilition Workers N1
7114-01	7114-01	Reinforced Concrete Worker
3716-03	3716-05	RELA Officer
2142-39	New	Reliability and Safety Engineer
2141-32	New	Reliability Engineer
2826-02	2826-03	Religious Officer
2826-08	2826-09	Religious Professionals
2392-09	2392-09	Remedial Teacher
2541-08	New	Render Wrangler
2141-56	New	Renewable Energy Engineer
4214-05	4214-05	Rent Collector
4214-06	4214-06	Rental Clerk
5249-01	5249-01	Rental Salesperson
7421-02	7421-02	Repairer, Electronics
7621-14	7621-15	Repairer, Fabrics Knitted
7623-04	7623-04	Repairer, Footwear
3322-21	New	Representative, Manufacturing
3322-09	3322-10	Representatives, Technical Sales Commersial
5419-09	5419-10	Rescue Diver
2413-06	New	Research Analyst
2152-33	New	Research and Development Electronic Engineer (includes Product Design
2151-34	New	Research and Development Electrical Design Engineer)
2151-30	New	Research and Development Electrical Engineer (Product Design)
2144-46	New	Research and Development Engineers

MASCO 2020	MASCO 2013	JOB TITLE
2426-09	New	Research and Development Executive
2426-07	New	Research and Development Executive (Agricultural)
2426-12	New	Research and Development Executive, Halal Food Manufacturing
1223-01	1223-01	Research and Development Manager
1223-04	New	Research and Development Manager, Halal Food Manufacturing
1223-05	New	Research and Development Manager, Halal Industry
2421-02	2421-04	Research and Information Analyst
3111-02	3111-04	Research Assistant Grade Q19
2149-18	2149-14	Research Engineer
1223-03	1223-03	Research Manager
2265-09	2265-09	Research Nutritionist
2426-13	New	Research Officer
2426-20	New	Research Officer Grade 23
2426-01	2426-01	Research Officer Grade Q41
2426-16	New	Research Officer Grade Q43
2426-17	New	Research Officer Grade Q47
2426-18	New	Research Officer Grade Q51
2426-19	New	Research Officer Grade Q53
4224-18	New	Reservation Agent
4224-12	4224-12	Reservation Assistant
4224-13	4224-13	Reservation Supervisor
2146-31	New	Reservoir Engineer
2114-36	New	Reservoir Geologist
1411-12	1411-13	Resort Manager
8343-08	New	Responsible Person (Tower Cranes, Freight Machines and Passengers)
8343-09	New	Responsible Person (Workplace and Gondola)
9411-04	New	Restaurant Crew
3257-40	3257-40	Restaurant Inspector
1412-01	1412-01	Restaurant Manager
5131-06	5131-06	Restaurant Supervisor
2262-04	2262-05	Retail Pharmacist
1421-01	1421-01	Retail Trade Manager
1421-06	1421-07	Retail Trade Manager, Online-Order Store
1421-05	1421-06	Retail Trade Manager, Self-Service Store
1421-12	1421-15	Retailer
8131-12	8131-12	Retort Operator, Chemical Processes
0131-66	New	Return Engineering Engineer
3315-03	3315-04	Revenue Assessor
2111-28	2111-28	Rheologist
9331-01	9331-01	Rickshaw Puller
7215-01	7215-03	Rigger
7215-08	7215-10	Rigger, Aircraft
7215-02	7215-04	Rigger, Hoisting Equipment
7215-03	7215-05	Rigger, Hoisting Equipment Construction
7215-04	7215-06	Rigger, Logging
7215-06	7215-08	Rigger, Petroleum and Gas Well Drilling
7215-09	7215-11	Rigger, Railway Cable
7215-05	7215-07	Rigger, Ship
2413-14	New	Risk Analyst
2413-24	New	Risk Management Engineer
2413-11	New	Risk Management Officer
1211-19	New	Risk Manager
1511-39	New	Risk Manager (Information Technology)
2413-15	New	Risk Modeller
1211-22	New	Risk Modelling Manager
2413-04	2413-04	Risk Operation Analyst
7214-04	7214-04	Riveter
3159-01	3159-01	Road Transport Supervisor

MASCO 2020	MASCO 2013	JOB TITLE
8131-16	8131-16	Roaster, Chemical Processes
8131-11	8131-11	Roasting Equipment Operator, Chemical Processes
2141-38	New	Robotic Process Automation (RPA) Expert
2144-58	New	Robotic Technologist
2141-02	2141-02	Robotics Engineer
3115-47	3119-20	Robotics Technician
7232-13	7232-13	Rocket Engine Component Mechanic
3151-14	3151-15	Rocket Engine Component Technician
3257-41	3257-41	Rodent Control Inspector
8221-46	8221-46	Roller and Engraver Metal-Printing Machine
3135-06	New	Rolling Mill Control Operator
3135-01	3135-01	Rolling-Mill Metal Manipulator
8131-05	8131-05	Roll-Mill Operator, Chemical Processes
8111-12	New	Roof Bolter (Mining)
7121-01	7121-01	Roofer
7121-04	7121-05	Roofer, Asbestos
7121-03	7121-04	Roofer, Asphalt
7121-09	7121-10	Roofer, Odd Job
7121-05	7121-06	Roofer, Slate
7121-02	7121-02	Roofer, Thatch
7121-06	7121-07	Roofer, Zink
9621-14	9621-17	Room Boy
4111-12	4111-12	Room Service Clerk
5151-11	5151-12	Room Steward
2512-27	New	Root Cause Failure Analysis (RCFA) Engineer
3115-40	New	Rope Access Technician
8131-22	8131-22	Rotary Drum Filterer
3115-11	3115-13	Rotary Technician
2144-39	New	Rotating Equipment Engineer
2541-09	New	Roto Artist
7316-09	7316-09	Router, Printing Plate
8351-03	8351-03	Rower, Canoe
0121-03	0121-03	Royal Armoured Corps Officer
0121-06	0121-06	Royal Artillery Regiment Officer
0121-13	0121-13	Royal Electrical and Mechanical Engineer Corps Officer
0121-05	0121-05	Royal Engineer Regiment Officer
0121-10	0121-10	Royal Intelligence Corps Officer
0121-11	0121-11	Royal Logistics Corps Officer
0121-01	0121-01	Royal Malay Regiment Officer
0121-08	0121-08	Royal Medical Corps Officer
0121-09	0121-09	Royal Military Police Corps Officer
0121-12	0121-12	Royal Ordnance Corps Officer
0121-02	0121-02	Royal Ranger Regiment Officer
0121-04	0121-04	Royal Signals Regiment Officer
2512-42	New	RPG Programmer (Role-Playing Game)
2511-11	2511-14	RPG System Analyst (Role-Playing Game)
8141-16	8141-16	Rubber Coagulator
8141-19	8141-19	Rubber Sheet Clipper and Sorter
9211-14	9211-16	Rubber Tapper
2145-17	2145-20	Rubber Technologist
9612-01	9612-01	Rubbish Sorter
		S
7323-12	7323-12	Saddle Stitch Operator
4211-05	4211-06	Safe Deposit Clerk
3257-46	New	Safety and Environmental Coordinators
3257-15	New	Safety and Health Consumer Protection Inspector
2263-23	New	Safety and Health Environmental Officer (Public)

MASCO 2020	MASCO 2013	JOB TITLE
3257-16	3257-16	Safety And Health Inspector
2263-11	2263-11	Safety and Health Officer
3257-14	New	Safety and Health Pollution Inspector
3257-13	3257-13	Safety and Health Technician
2263-12	2263-12	Safety and Health Technologist
3257-42	3257-42	Safety And Sanitary Inspector
4419-02	New	Safety Clerk
2149-05	2149-21	Safety Engineer
5414-13	5414-14	Safety Supervisor
3623-04	3623-04	Sailing Instructor
8351-08	8351-08	Sailor
6115-07	New	Salad Grower
2431-22	3322-16	Sales Administrative Executive
2412-11	New	Sales Analyst
2431-40	New	Sales and Marketing Executive
1221-03	1221-02	Sales and Marketing Manager
2434-08	New	Sales Application Engineer (Information Technology)
5223-01	5223-01	Sales Assistant
2431-38	New	Sales Executive Coordinator
1221-13	New	Sales Director
2431-30	New	Sales Engineer
2431-19	3322-13	Sales Executive
1221-02	1221-01	Sales Manager
5242-03	5242-03	Sales Merchandiser
2431-37	New	Sales Officer
5242-02	5242-02	Sales Promoter
1221-05	1221-04	Sales Promotion Manager
2431-03	2431-03	Sales Promotion Officer
3322-04	3322-04	Sales Representative
2433-04	New	Sales Representative, Active Implantable Devices
2433-05	2433-05	Sales Representative, Anaesthetic and Respiratory Devices
2434-02	2434-02	Sales Representative, Computer
2433-06	2433-06	Sales Representative, Dental Devices
2433-07	2433-07	Sales Representative, Electromechanical Medical Devices
2433-09	2433-09	Sales Representative, Industrial Product
2434-01	2434-01	Sales Representative, Information and Communications Technology
2433-01	2433-01	Sales Representative, Medical
2433-10	2433-10	Sales Representative, Medical and Pharmaceutical Product
2433-02	2433-02	Sales Representative, Medical Devices
2433-03	2433-03	Sales Representative, Medical Hardware
2433-08	2433-08	Sales Representative, Ophthalmic and Optical Devices
3322-15	New	Sales Representatives Grade P4
2432-16	2432-17	Sales Reservation Executive
4121-10	4121-15	Sales Secretary
2431-08	2431-08	Sales Specialist
5222-02	5222-02	Sales Supervisor
3322-12	3322-22	Salesperson, Car
3322-01	3322-01	Salesperson, Commercial
3322-17	New	Salesperson, Manufacturing
5211-11	5211-11	Salesperson, Marketing
3322-13	3322-23	Salesperson, Motor Vehicle
3322-14	3322-24	Salesperson, Motorcycle
3322-19	New	Salesperson, Retail Establishment
3322-18	New	Salesperson, Shop
3322-06	3322-06	Salesperson, Technical
3322-05	3322-05	Salesperson, Travel
3322-20	New	Salesperson, Wholesale Establishment
7621-29	New	Sample Maker
8111-06	8111-06	Sampler, Mine

MASCO 2020	MASCO 2013	JOB TITLE
8111-08	8111-08	Sampler, Quarry
7133-02	7133-02	Sandblaster (Building Exteriors)
7316-03	7316-03	Sandblaster, Glass
8122-08	8122-08	Sandblaster, Metal
9411-05	New	Sandwichsta
2263-03	2263-03	Sanitarian
3257-17	3257-17	Sanitary Inspector
3257-18	3257-18	Sanitary Standards Inspector
1622-03	1622-03	Sanitation Manager
2522-16	2522-21	SAP Application Administrator
2512-29	New	SAP Application Developer (Systems Applications and Products)
2511-53	New	SAP Consultant (Systems Applications and Products)
2512-28	New	SAP IT and Finance Applications Developers (Systems Applications and Products)
2831-24	New	Sasterawan
2393-01	2393-01	Satellite-Instruction Facilitator
3641-11	3641-15	Saucier
7511-04	7511-04	Sausage Maker
8172-02	8172-02	Saw Operator
8172-05	8172-05	Saw Operator Sawmill
8172-03	8172-03	Saw Operator, Wet Timber
8172-04	8172-04	Saw Operator, Wood
7224-04	7224-04	Saw Repairer
7224-06	7224-06	Saw Servicer
7224-05	7224-05	Saw Sharpener
2182-11	New	Sawmill Controller
3122-08	3122-08	Sawmill Supervisor
7115-14	New	Sawyer (Wood)
3122-10	3122-10	Sawyer Supervisor
7113-04	7113-05	Sawyer, Stone
2141-44	New	SCADA Engineer
7111-03	7119-04	Scaffolder
6211-10	6211-11	Scaler, Log
9211-25	New	Scalp Rubber Scale
3256-10	3256-11	Scanning Equipment
3632-14	3632-14	Scenery Designer
4322-30	4322-30	Schedule Clerk (Materials)
2399-05	2399-10	School Counsellor
1615-10	1615-10	School Director
2391-03	2391-03	School Inspector
4121-11	4121-16	School Secretary
7311-02	7311-02	Scientific Instrument Maker
2426-02	2426-02	Scientific Officer Grade C41
3631-11	3631-12	Scientific Photographer
2426-11	2133-16	Scientist
9611-02	9611-02	Scrap Handler
9612-03	9612-03	Scrap Paper Merchant
0131-16	New	Scratches
7321-07	7321-08	Screen Maker
7322-10	7322-10	Screen Printer
7322-11	7322-11	Screen Printing Press-Operator
4414-03	4414-03	Scribes
2831-16	2831-16	Script Writer
2541-12	New	Scriptwriter / Screenwriter
2841-01	2841-01	Sculptor
2352-02	2352-02	Sculpture Teacher
8351-23	New	Seafearer
6221-13	6221-13	Seafood Farmer
7231-12	7231-14	Sealant Installer

MASCO 2020	MASCO 2013	JOB TITLE
2361-05	2361-05	Second Language Teacher
2331-02	2331-02	Secondary Education Teacher
4121-05	4121-06	Secretarial Administrative Assistant
0311-04	0311-04	Secretariat Branch Officer
1112-05	1112-05	Secretary General of Treasury
1112-19	1112-19	Secretary of Commission
1112-33	1112-38	Secretary of the House of Representatives
1112-32	1112-37	Secretary of the Senate
4121-13	New	Secretary/Assistant Secretary Grade 19
1112-14	1112-14	Secretary-General of Ministry
1114-10	1114-10	Secretary-General, Environmental Protection Organization
1114-07	1114-07	Secretary-General, Human Rights Organization
1114-08	1114-08	Secretary-General, Humanitarian Organization
1114-06	1114-06	Secretary-General, Red Crescent Organization
1114-09	1114-09	Secretary-General, Red Cross Organization
1114-05	1114-05	Secretary-General, Special Interest Organization
1114-11	1114-11	Secretary-General, Wildlife Protection Organization
3311-01	3311-01	Securities Broker
2531-19	New	Security Administrator (Information Technology)
0131-52	New	Security and Response Members
2531-06	New	Security Architect (Information Technology)
2531-15	New	Security Engineer (Information Technology)
2531-33	New	Security Executive (Information Technology)
5414-02	5414-02	Security Grade KP11
5414-11	5414-11	Security Guard
2531-36	New	Security Infrastructure Engineer
1623-01	1623-01	Security Manager
2531-32	New	Security Officer (Information Technology)
2916-04	2919-01	Security Officer Grade KP41
1623-02	1623-02	Security Operation Manager
5414-16	5414-17	Security Patrolman
2531-35	New	Security Penetration Tester (Information Technology)
2531-08	New	Security Strategist
5414-14	5414-15	Security Supervisor
2531-05	New	Security Technologist Specialist
2114-45	New	Sedementologist
2113-32	2113-35	Sedimentologist
2114-40	New	Seismic Interpreter
2113-27	2113-30	Seismic Stratigrapher
2112-06	2112-07	Seismologist
1412-08	1412-08	Self-Service Restaurant Manager
2152-10	2152-19	Semiconductor Engineer
2152-34	New	Semiconductor Packaging Engineer
3511-13	3511-13	Semi-Conductor Technician
3641-03	3641-06	Senior Chef
1121-30	New	Senior Manager Grade P1
2174-08	New	Senior Material Controller, Aircraft
1114-13	1114-13	Senior Officials of Humanitarian Organization
1114-12	1114-12	Senior Officials of Special Interest Organization
2915-01	2915-01	Senior Police Officer Grade YA13
8351-06	8351-06	Senior Sailor
8131-20	8131-20	Separator Operator, Chemical Processes
0131-08	New	Serang Pioneer
5412-06	New	Sergeant Major, Police
5412-07	New	Sergeant, Police
3341-01	3341-01	Sergeant-at-Arms Grade N29
4419-05	9621-02	Sergeant-at-arms, Grade N11
6123-07	6123-02	Sericulturist
2131-04	2131-05	Serologist

MASCO 2020	MASCO 2013	JOB TITLE
3141-17	3141-17	Serology Technician
7625-04	New	Sertu
8113-18	New	Service Operator
5245-02	5245-02	Service Station Attendant
3121-04	New	Service Supervisor/Leader
3511-31	New	Service Technician (Multi-function Printer)
3632-22	3632-22	Set Designer
8172-16	8172-16	Setter, Veneer
7613-03	7613-03	Setter, Wood Machine
8221-47	8221-47	Setter-operator
8221-50	8221-50	Setter-Operator, Boring and Drilling Machine
8221-51	8221-51	Setter-Operator, Honing Machine
8221-48	8221-48	Setter-Operator, Lathe
7113-15	New	Setter-Operator, Lathe Stone
8221-44	8221-44	Setter-Operator, Metalworking Machine
8221-52	8221-52	Setter-Operator, Milling Machine
8221-53	8221-53	Setter-Operator, Reaping Machine
8221-49	8221-49	Setter-Operator, Shaping Machine
3257-34	3257-34	Sewage Disposal Inspector
3132-08	3132-08	Sewage Plant Operator
7621-08	7621-09	Sewer
2143-02	2143-02	Sewerage and Sanitation Engineer
1622-13	1622-13	Sewerage Manager
8153-01	8153-01	Sewing Machine Operator
8153-03	8153-03	Sewing Machine Operator, Crochet
8153-04	8153-04	Sewing Machine Operator, Embroider
8153-02	8153-02	Sewing Machine Operator, Leather
6122-14	New	Sexer, Poultry
5153-06	5153-06	Sexton
4312-23	4312-24	Share and Stock Registration Clerk
2511-35	2511-49	Sharepoint Consultant
2511-37	2511-51	Sharepoint Specialist
2511-36	2511-50	Sharepoint Technical Specialist
2431-12	New	Shariah Compliance Officer
7213-01	7213-03	Sheet Metal Worker
7213-07	7213-09	Sheet Metal Worker, Aircraft
7213-06	7213-08	Sheet Metal Worker, Ornamental
7213-05	7213-07	Sheet Metal Worker, Vehicle
8141-17	8141-17	Sheet Rubber Maker
9334-01	9334-01	Shelf Filler
6121-06	6121-08	Shepherd
8351-07	8351-07	Shipman
3255-08	3255-08	Shiatsu Therapist
3122-25	3129-07	Shift Supervisor
2172-02	2172-03	Ship Captain
2171-03	2171-03	Ship Construction Engineer
2171-01	2171-01	Ship Engineer
7214-09	New	Ship Hull Fitter
1321-08	New	Ship Hull Manager
7239-02	7239-02	Ship Mechanic
2172-07	2172-08	Ship Navigator
2172-04	2172-05	Ship Pilot
7214-03	7214-03	Ship Plater
8351-04	8351-04	Ship Quatermaster
5111-10	5111-10	Ship Steward/Stewardess
3152-06	3152-06	Ship Technician
5111-01	5111-01	Ship's Cabin Attendant
3331-03	3331-03	Shipping Agent
3324-02	3324-02	Shipping Broker

MASCO 2020	MASCO 2013	JOB TITLE
4321-24	4321-25	Shipping Clerk
2172-11	2179-02	Shipping Executive
1324-14	1324-12	Shipping Manager
3521-11	3521-11	Ships Radio Officer
7214-06	7214-06	Shipwright, Metal
7115-06	7115-08	Shipwright, Wood
2163-10	2163-10	Shoe Designer
7623-01	7623-01	Shoemaker
7623-02	7623-02	Shoemaker, Orthopedic
5223-02	5223-02	Shop Assistant
5222-01	5222-01	Shop Supervisor
5221-01	5221-01	Shopkeeper
1221-10	1221-09	Shopping Centre Manager
9411-03	9411-03	Short Order Cook
7632-01	7632-01	Shotfire
8312-03	8312-03	Shunter, Railway
7114-03	7114-03	Shutterer, Concrete
7114-02	7114-02	Shutterer, Concrete Moulding
5153-07	5153-07	Siak / Nuja
2511-41	2511-55	Siebel Customer Relationship Management (CRM) Consultant (Information Technology)
2512-24	2512-24	Siebel Developer
2519-12	2519-12	Siebel Solution Architect
2511-38	2511-52	Siebel Specialist
2519-13	2519-13	Siebel Technical Architect
8131-19	8131-19	Sieving Machine Operator, Chemical Processes
2833-06	2833-07	Sign Language Interpreter
7131-09	7131-10	Signpainter
7316-11	7316-11	Sign-writer
3622-08	3622-12	Silat Coach
8151-04	8151-04	Silk Reeler
7316-06	7316-06	Silverer, Mirror
7313-03	7313-03	Silversmith
3143-03	3143-05	Silviculture Technician
2133-14	2133-14	Silviculturist
2173-07	New	Simulator Instructor
2833-01	2833-02	Simultaneous Interpreters Grade N41
2842-15	2842-15	Singer
2351-02	2351-02	Singing Teacher
2221-12	2221-13	Sister
2142-08	2142-14	Site Construction Engineer
3123-05	New	Site Coordinator
3123-06	New	Site Safety Supervisor
3123-04	3123-04	Site Supervisor
2381-02	2381-02	Skills Training Trainer
7639-04	New	Skilled Assistant Grade H19
6114-03	6114-03	Skilled Farm Worker (Mixed Crops)
6221-04	6221-04	Skilled Fish Farm Worker
7511-01	7511-01	Slaughterer
7231-20	7231-22	Small Engine Mechanic
8121-30	8121-30	Smelting Operator
4312-04	4312-04	Social and Economic Data Enumerator
5419-22	3713-01	Social Benefits Assistant
2913-01	2913-01	Social Benefits Officer
4419-11	3611-02	Social Research Assistant Grade N19
2426-10	2822-01	Social Research Officer Grade N41
3713-01	New	Social Security Claims Assistant Officer
2913-02	2913-02	Social Security Claims Officer
3611-08	3611-10	Social Welfare Worker

MASCO 2020	MASCO 2013	JOB TITLE
3611-09	3611-11	Social Welfare Worker, Case Work
1614-01	1614-01	Social Work Manager
1614-02	1614-02	Social Work Operation Manager
3611-01	3611-03	Social Worker
3611-12	3611-14	Social Worker, Community
3611-11	3611-13	Social Worker, Delinquency
2825-02	2825-03	Social Worker, Professional
3611-14	3611-16	Social Worker, Psychiatric
2822-01	2822-03	Sociologist
2512-25	New	Software Analyst
2512-26	New	Software Design Engineers
1511-35	New	Software Development Manager
2512-23	2512-23	Software Engineer
2512-08	2512-08	Software Engineer (.Net)
2514-02	2514-02	Software Programmer
2519-11	2519-11	Software Quality Assurance Engineer (Information Technology)
2393-03	2393-03	Software Trainer
2133-11	2133-11	Soil Conservationist
3111-13	3111-15	Soil Laboratory Assistant
2133-13	2133-13	Soil Scientist
2165-09	2165-10	Soil Surveyor
3111-12	3111-14	Soil Technician
3131-16	New	Solar Cell Technician
7413-10	New	Solar Hotwater Installation and Maintenance Installer
2163-22	New	Solar Hotwater Technology Designer
7413-09	New	Solar Photovoltaic Installation and Maintenance Installer
2163-21	New	Solar Photovoltaic Technology Designer
3131-10	3131-10	Solar Power Plant Operator
7413-08	New	Solar Thermal Installation and Maintenance Installer
2163-20	New	Solar Thermal Technology Assistant Designer
2163-19	New	Solar Thermal Technology Designer
7213-13	7213-15	Solderer
7213-12	7213-14	Solderer, Metal
2611-17	2611-28	Solicitor
1622-15	New	Solid Waste Assistant Manager
3119-37	New	Solid Waste Assistant Technician
1622-14	New	Solid Waste Manager
3119-36	New	Solid Waste Technician
2519-08	2519-08	Solution Architect (Information Technology)
2831-14	2831-14	Song Writer
3256-11	3256-12	Sonographer
9321-05	9329-02	Sorter
7515-15	7515-15	Sorter, Paddy
7516-05	7516-05	Sorter, Tobacco
3521-09	3521-09	Sound Editor
3521-08	3521-08	Sound Mixer
2514-14	2514-14	Sound Programmer
2153-28	2152-17	Sound Systems Engineer
3521-06	3521-06	Sound-Effects Technician
3641-01	3641-04	Sous Chef
5142-07	5142-07	Spa Masseur
5142-09	5142-09	Spa Therapist
1111-15	1111-15	Speaker of the House Representatives
3634-08	3639-04	Special Effects Technician
0131-57	New	Special Intelligence Operations
2141-62	New	Special Tooling (Die) Engineer
2141-61	New	Special Tooling (Mould) Engineer
2212-68	New	Specialist Medical Officer Grade UD55

MASCO 2020	MASCO 2013	JOB TITLE
2221-09	2221-10	Specialist Nurse
2221-15	2221-17	Specialized Nurse
2266-06	New	Speech Pathologist
2266-02	2266-02	Speech Therapist
2831-22	2831-22	Speech Writer
6115-06	New	Spinach Grower
3115-41	New	Spinning Technician
7215-07	7215-09	Splicer, Rope and Cable
7113-13	7113-14	Splitter, Sand
7113-01	7113-02	Splitter, Stone
0131-15	New	Spokesman Kombat Semboyan
1621-01	1621-01	Sports Activity Manager
3339-04	3339-04	Sports Agent
1621-15	1621-15	Sports and Recreation Manager
2846-12	2846-12	Sports Announcer
1621-13	1621-13	Sports Centre Manager
3622-04	3622-08	Sports Coach
3622-16	3622-20	Sports Instructor
3622-02	3622-06	Sports Officials
3339-06	3339-06	Sports Promoter
2824-08	2824-10	Sports Psychologist
2832-09	2832-13	Sports Writer
3621-01	3621-01	Sportsperson
8131-13	8131-13	Spray-Dried Operator, Chemical Processes
7132-01	7132-01	Spray-Painter
7132-03	7132-03	Spray-Painter, Vehicles
2141-49	New	Sputter Equipment Engineer
2141-47	New	Sputter Process Engineer
2521-09	2521-09	SQL Database Administrator (Structured Query Language)
2524-21	2511-17	SQL Database Analyst (Structured Query Language)
2521-10	2521-10	SQL Database Engineer (Structured Query Language)
2521-11	2521-11	SQL Database Specialist (Structured Query Language)
9334-04	9329-12	Stacker
1621-14	1621-14	Stadium Manager
2424-01	2424-01	Staff Training Officer
2844-06	2844-07	Stage Director
1624-08	1624-08	Stage Manager
2844-12	2844-13	Stage Producer
3634-14	3639-10	Stage Technician
5211-12	New	Stall Salesperson
2847-11	2847-12	Stand-up Comedian
1111-07	1111-07	State Exco
2144-61	New	Static Engineer
7222-08	New	Static Equipment Maintenance Fitter
5112-10	New	Station Master
7233-12	7233-12	Stationary Engine Fitter
3132-01	3132-01	Stationary Engine Operator
7233-13	7233-13	Stationary Engine Repairer
0321-12	New	Statistical Assistant
4312-31	3314-01	Statistical Assistant Grade E19
4312-03	4312-03	Statistical Clerk
2121-01	2121-02	Statistician Grade E41
2121-06	2121-08	Statistician, Applied Statistics
2121-07	2121-09	Statistician, Survey
2425-07	2425-14	Statutory Bodies Executive Officer
2144-21	2144-24	Steam Engineer
7114-05	7114-05	Steel Bender
7114-09	7114-09	Steel Fixer

MASCO 2020	MASCO 2013	JOB TITLE
8121-32	8121-32	Steel Roller
3115-29	New	Steelmaking Technician
7119-04	7119-07	Steeplejack
4131-02	4131-02	Stenographer
4121-09	4121-12	Stenography Secretary
7316-08	7316-08	Stereotyper
5321-15	5329-04	Sterilization Aide
9333-04	9333-04	Stevedore
5111-06	5111-06	Steward/Stewardess
5111-02	5111-02	Steward/Stewardess, Coordinator
5111-04	5111-04	Steward/Stewardess, Floor
5111-03	5111-03	Steward/Stewardess, Supervisor
0321-16	0321-01	Stewardess
3134-25	New	Stillman
3134-02	3134-02	Stillman (Petroleum Refining)
3311-02	3311-02	Stock and Shares Broker
3311-04	3311-04	Stock Broker
4321-19	4321-19	Stock Clerk
4321-17	4321-17	Stock Control Clerk
9334-02	9334-02	Stock Filler
9334-03	9334-03	Stock Handler
4321-21	4321-21	Stock Record Clerk
4321-08	4321-08	Stock Worker
4312-22	4312-23	Stockbroker Clerk
2261-13	2261-15	Stomatologist
7113-12	7113-13	Stonemason
7112-10	New	Stonemason, Construction
7112-05	7112-05	Stonework Layout Man
1324-13	1324-11	Storage Manager
4321-11	4321-11	Store Assistant
4321-06	4321-06	Store Clerk
4321-12	4321-12	Store Controller
4321-16	4321-16	Store Coordinator
5419-17	New	Store Detective
2182-07	2182-07	Store Executive
4321-39	New	Store Maintenance Grade K1
4321-10	4321-10	Store Receiving Assistant
3122-24	3129-06	Store Supervisor
4321-13	4321-13	Storekeeper
4321-38	4321-40	Storeroom Clerk
2541-28	New	Story Content Writer
2845-03	2845-03	Story Teller
2541-11	New	Storyboard Artist
2432-20	New	Strategic Communication Officer Grade S41
2432-22	New	Strategic Communication Officer Grade S43
2432-23	New	Strategic Communication Officer Grade S47
2432-24	New	Strategic Communication Officer Grade S51
2432-25	New	Strategic Communication Officer Grade S53
0131-55	New	Strategic Intelligence
1213-02	1213-02	Strategic Planning Manager
2421-06	New	Strategy Analyst
2114-29	2114-34	Stratigraph
9511-01	New	Street Car Washer
5212-02	5212-02	Street Food Vendor
5211-01	5211-01	Street Stall Salesperson
7312-03	7312-03	Stringed-Musical Instrument Maker
2142-34	2142-40	Structural Engineer
2114-37	New	Structural Geologist

MASCO 2020	MASCO 2013	JOB TITLE
7214-01	7214-01	Structural Steel Worker
2423-24	New	Student Recruitment Officer
3634-16	3639-12	Stunt Artist
3634-15	3639-11	Stunt Co-Ordinator
2832-10	2832-14	Sub Editor
5412-05	New	Sub Inspector
2146-27	New	Subsea Engineer
6321-01	6321-01	Subsistence Livestock Farmers
2833-07	2833-08	Subtitler
4412-05	4412-05	Summon Dispatch
2911-01	2911-01	Superintendent of Custom Grade WK41
2916-06	2919-03	Superintendent of Fire Brigade Grade KB41
2916-07	2919-04	Superintendent of Prison Grade KA41
1221-09	1221-08	Supermarket Manager
5222-03	5222-03	Supermarket Supervisor
3122-23	3129-04	Supervisor
5222-05	New	Supervisor (Stall/Kiosk) Grade K1
3122-27	New	Supervisor Grade P4
3123-11	New	Supervisor, Building Construction
3123-12	New	Supervisor, Building Operations
3123-13	New	Supervisor, Building Project
3123-14	New	Supervisor, Building Site
3142-18	New	Supervisor, Halal Livestock Production
3122-28	New	Supervisor, Halal Slaughterhouse
6211-20	6211-21	Supervisor, Log
3511-24	New	Supervisor, Management Information Systems
3133-06	New	Supervisor, Plant
6111-18	6111-18	Supervisor, Plantation
2149-14	New	Supplier Quality Engineer
1214-11	New	Supply Chain Manager
2182-18	New	Supply Chain/Procurement Specialist
4321-02	4321-02	Supply Clerk
1324-03	1324-03	Supply Manager
3323-09	3323-09	Supply Officer
0211-03	0211-03	Supply Officer
0321-13	New	Surface and Safety Technicians
3111-29	3111-31	Surface Weather Observer
2212-17	2212-17	Surgeon
2212-19	2212-19	Surgeon, Cardiology
2212-20	2212-20	Surgeon, Cardiothoracic
2212-28	2212-28	Surgeon, Ear, Nose and Throat
2212-18	2212-18	Surgeon, Hepatic
2212-27	2212-27	Surgeon, Neurosurgery
2212-21	2212-21	Surgeon, Ophthalmology
2212-22	2212-22	Surgeon, Orthopedic
2212-23	2212-23	Surgeon, Osteopathic
2212-24	2212-24	Surgeon, Paediatric
2212-26	2212-26	Surgeon, Plastic and Reconstructive
2212-29	2212-29	Surgeon, Thoracic
2212-25	2212-25	Surgeon, Transplant
2212-30	2212-30	Surgeon, Traumatology
2212-31	2212-31	Surgeon, Urology
2212-32	2212-32	Surgeon, Vascular
7311-03	7311-03	Surgical Instrument Maker
3212-14	3212-15	Surgical Technician
2141-51	New	Survey Engineer
4226-02	4229-02	Survey Interviewer
3112-07	3112-11	Surveying Assistant

MASCO 2020	MASCO 2013	JOB TITLE
3112-06	3112-10	Surveying Technical Assistant
3112-14	3112-18	Surveying Technician
2165-07	2165-08	Surveyor
0131-17	2165-08	Surveyor
2165-02	2165-02	Surveyor Grade J41
1214-13	New	Sustainability Manager
9613-03	9613-03	Sweeper, Floor
9613-02	9613-02	Sweeper, Park
9613-01	9613-01	Sweeper, Road
9613-07	9613-07	Sweeper, Street
3622-13	3622-17	Swimming Coach
3622-19	3622-23	Swimming Instructor
5419-07	5419-08	Swimming Pool Attendant
4419-04	3342-01	Syariah Assistant Grade LS19
2611-03	2611-09	Syariah Officer Grade LS41
7514-04	7514-04	Syrup Maker
2511-54	New	System Analysis Engineer
2511-59	New	System Analyst Grade 23
2512-37	New	System Application Engineer
2512-47	New	System Developer
2512-41	New	System Engineer (Oracle)
3513-04	New	System Security and Application ICT Technician
2522-20	New	System Support Specialist
2543-19	New	System Technical Writer
2522-09	2522-13	Systems Administrator
2141-07	2141-07	Systems Analyst (Except Computers)
2141-11	2141-11	Systems Design Engineer (Except Computers)
2522-35	New	Systems Design Engineer (Information Technology)
2141-10	2141-10	Systems Engineer (Except Computers)
3511-17	3511-17	Systems Operator
2514-07	2514-07	Systems Programmer
2531-28	New	Systems Security Engineer
2519-02	2519-02	Systems Tester
2543-12	New	Systems/Computer Designer
		T
3622-09	3622-13	Taekwando Coach
3622-11	3622-15	Tai Chi Coach
7621-01	7621-02	Tailor
2423-21	New	Talent Acquisition Consultant
1212-11	1212-10	Talent and Organization Performance Manager
2423-19	2423-19	Talent Management Specialist
4321-25	4321-26	Tally Clerk
7625-02	7625-02	Tanners
5112-08	5112-09	Tansport Conductor
7515-06	7515-06	Taster and Grader, Food
7515-07	7515-07	Taster and Grader, Liquor
7515-11	7515-11	Taster, Juice
2411-08	2411-12	Tax Accountant
4419-18	3712-04	Tax Assistant
4312-19	4312-20	Tax Clerk
2411-09	2411-13	Tax Consultant
4419-16	3712-02	Tax Estimater Assistant
1211-14	New	Tax Manager
2912-05	2912-06	Tax Officer
4419-19	3712-05	Taxation Inspector's Assistant
3141-11	3141-11	Taxidermist
2131-14	2131-15	Taxonomist

MASCO 2020	MASCO 2013	JOB TITLE
2131-16	2131-17	Taxonomist, Animals
2131-15	2131-16	Taxonomist, Plant
9112-11	9112-11	Tea Lady
1412-11	New	Tea Shop Manager
2399-04	2399-09	Teacher, Adult Education
2331-06	2399-08	Teacher, Home Economics
2342-05	New	Teacher, Nursery
2392-03	2392-03	Teacher, Special Education For The Blind
2392-01	2392-01	Teacher, Special Education For The Deaf
2392-02	2392-02	Teacher, Special Education For The Dumb
2392-04	2392-04	Teacher, Special Education For The Mentally Handicapped
2392-05	2392-05	Teacher, Special Education For The Physically Handicapped
2321-01	2321-01	Teacher, Technic
2321-02	2321-02	Teacher, Vocational
5312-02	5312-02	Teacher's Aide
2391-05	2391-05	Teaching Aid Specialist
5312-09	New	Teaching Assistant
0131-09	New	Team Crew
1222-11	New	Team Leader
2431-17	3322-09	Technical Adviser
2542-10	New	Technical Artist
2182-19	New	Technical Executive
2511-50	New	Technical Helpdesk Analyst
2541-22	2166-22	Technical Illustrator
1121-28	New	Technical Manager
1211-18	New	Technical Manager (Accounting)
0211-02	0211-02	Technical Officer
2844-18	New	Technical Producer
2514-03	2514-03	Technical Programmer
2174-07	New	Technical Record Administrator, Aircraft
2174-06	New	Technical Record Executive, Aircraft
3322-08	3322-08	Technical Sales Agent
2431-32	New	Technical Sales Engineer
2433-11	2433-11	Technical Sales Representative
2146-25	New	Technical Section Leader
2182-29	2149-13	Technical Service Adviser
2511-16	2511-25	Technical Specialist (.Net)
2511-21	2511-31	Technical Specialist (Java)
3122-21	New	Technical Supervisor
2522-28	New	Technical Support Engineer (Information Technology)
3512-15	New	Technical Support Technician
2522-36	New	Technical Systems Administrator
2831-17	2831-17	Technical Writer
3119-01	3112-09	Technician
3119-47	New	Technician Assistant
3119-02	New	Technician Grade P4
3231-10	New	Technician, Acupuncture
3231-11	New	Technician, Ayurvedic
3116-11	New	Technician, Process Engineering
2141-40	New	Techno Functional Consultant
2142-05	2142-11	Technologist
2142-09	2142-15	Technologist, Building Materials
2131-66	2131-67	Technologist, Green Technology
1214-16	New	Technology Manager
2531-11	New	Technology Strategist
2144-34	2144-37	Technology Technical Engineer
1511-33	New	Technology Transformation Manager
4223-01	4223-01	Telecommunication Service Operator

MASCO 2020	MASCO 2013	JOB TITLE
4223-05	4223-06	Telecommunication Service Supervisor
2153-24	New	Telecommunications Consultant
2153-01	2153-01	Telecommunications Engineer
2153-02	2153-02	Telecommunications Engineer, Aerospace
2153-06	2153-06	Telecommunications Engineer, Microwave
2153-03	2153-03	Telecommunications Engineer, Radar
2153-07	2153-07	Telecommunications Engineer, Radio
2153-04	2153-04	Telecommunications Engineer, Signal Systems
2153-09	2153-09	Telecommunications Engineer, Telegraph
2153-08	2153-08	Telecommunications Engineer, Telephone
2153-10	2153-10	Telecommunications Engineer, Television
2153-05	2153-05	Telecommunications Engineering Technologist
3521-18	3521-18	Telecommunications Equipment Technician
3522-04	3522-04	Telecommunications Technician
5244-05	5244-07	Telemarketer
7422-02	7422-02	Telephone and Telegraph Installer
7422-03	7422-03	Telephone and Telegraph Mechanic
7422-04	7422-04	Telephone and Telegraph Servicer
4223-03	4223-03	Telephone Exchange Telephone Operator
4223-08	New	Telephone Operator
4224-04	4224-04	Telephone Receptionist
7422-01	7422-01	Telephone Wireman
4223-04	4223-04	Telephonist
5244-04	5244-05	Telesales Executive
2846-03	2846-03	Television Announcer
2844-17	2844-18	Television or Radio Technical Director
2832-11	2832-15	Television/Radio News Reporter
8181-14	8181-14	Temperer, Glass
3622-10	3622-14	Tennis Coach
3621-06	3621-06	Tennis Player
2524-07	New	Tera Data Analyst
3716-04	3716-06	Territorial Army
0121-15	0121-15	Territorial Army Regiment Officer
2531-31	New	Test Analyst (Information Technology)
2519-07	2519-07	Test Engineer (Information Technology)
3119-48	New	Test Technician
3115-22	3115-24	Test Technician (Mechanical)
2151-29	New	Test/Measurement Engineer (Electric)
2152-32	New	Test/Measurement Engineer (Electronic)
2519-18	New	Tester (Selenium, Cucumber Skills)
7515-05	7515-05	Tester and Grader, Coffee
7515-04	7515-04	Tester and Grader, Tea
7515-02	7515-02	Tester, Beverages
7515-01	7515-01	Tester, Food
7224-07	7224-07	Textile Card Grinder
2163-07	2163-07	Textile Designer
7318-07	7318-07	Textile Fibre Comber
7318-08	7318-08	Textile Fibre Rover
3119-32	New	Textile Finishing Technician
7322-02	7322-02	Textile Printer
2141-22	2141-22	Textile Technologist
1112-01	1112-01	The Keeper of the Rulers' Seal
0131-53	New	The Nerves of the Nervous War
2844-09	2844-10	Theatre Director
1624-10	1624-10	Theatre Manager
2844-13	2844-14	Theatre Producer
3634-17	3639-13	Theatre Technician
3339-05	3339-05	Theatrical Agent

MASCO 2020	MASCO 2013	JOB TITLE
3632-19	3632-19	Theatrical Set Designer
2265-05	2265-05	Therapeutic Dietician
2264-07	2264-09	Therapeutic Masseur
2144-29	2144-32	Thermal Engineer
2144-30	2144-33	Thermal Mechanical Solution Engineer
2151-16	2151-18	Thermal/Optic Specialist LED (Light-Emitting Diode)
2111-10	2111-10	Thermodynamics
7318-10	7318-10	Thread and Yarn Spinner
8151-03	8151-03	Thread and Yarn Spin Worker
8151-02	8151-02	Thread and Yarn Winder
7224-11	7224-11	Thread Grinder
7314-06	7314-06	Thrower, Pottery and Porcelain
5112-02	5112-02	Ticket Inspector
7122-06	7122-06	Tile Layer
7122-02	7122-02	Tile Setter
8111-09	8111-09	Timberman, Underground
2141-14	2141-14	Time and Motion Engineer
7213-11	7213-13	Tinsmith
3141-03	3141-03	Tissue Culture Technician
7516-07	7516-07	Tobacco Dryer
7516-08	7516-08	Tobacco Slicer
1113-07	1113-07	Tok Batin
1113-05	1113-05	Tok Sidang
5231-17	5231-20	Toll Teller
6115-09	New	Tomato Grower
7222-01	7222-03	Tool and Die Maker
7224-13	7224-13	Tool Grinder
8113-13	8113-13	Tool Pusher
3119-50	New	Tooling Technician
2514-38	New	Tools Programmer
2542-13	New	Tools Programmer (Digital)
7221-05	7221-06	Toolsmith
2165-10	2165-11	Topographic Surveyor
5113-06	5113-08	Tour Escort
1222-14	New	Tour Manager
8113-14	8113-14	Tour Pusher
2432-12	2432-13	Tourism Officer
5113-01	5113-01	Tourist Guide
2164-02	2164-03	Town Planner
2134-19	2134-19	Toxicologist
3118-22	3118-24	Tracer
7322-05	7322-05	Tracer, Textile Design
3153-06	New	Track Network Technician
9312-07	9312-07	Trackman, Railway
3324-03	3324-03	Trade Broker
2431-14	New	Trade Product Specialist
1113-10	1113-10	Traditional Chief
3231-04	3231-04	Traditional Chinese Medicine Dispenser
3231-02	3231-02	Traditional Chinese Medicine Practitioner
3231-03	3231-03	Traditional Indian Medicine Practitioner
3231-01	3231-01	Traditional Malay Medicine Practitioner
2231-02	2231-02	Traditional Medical Specialist
5419-13	5419-14	Traffic Controller
2164-04	2164-05	Traffic Engineer
2164-05	2164-06	Traffic Planner
5419-11	5419-12	Traffic Warden
5112-04	5112-04	Train Conductor
7239-03	7239-03	Train Engine Fitter

MASCO 2020	MASCO 2013	JOB TITLE
7239-04	7239-04	Train Engine Repairer
3153-01	3153-01	Train Technician
2848-01	2848-01	Trainer in Zoological, Bird and Aquatic Parks
2423-25	New	Training Administrator
2423-15	2423-15	Training Consultant
2424-04	New	Training Developer
2423-22	New	Training Executive, Halal Industry
1212-03	1212-02	Training Manager
1212-12	New	Training Manager, Halal Industry
2381-04	2399-01	Training Officer Grade E41
2424-05	New	Training Officer, Halal Industry
2423-20	2423-20	Training Specialist
5112-09	5112-10	Tram Conductor
1211-13	1211-13	Transaction Monitoring Manager
2413-16	New	Transfer Pricing Consultant
2833-02	2833-03	Translator
2146-54	New	Transmission Control Protocol Service Specialist (TCP)
2153-21	New	Transmission Network Engineer
4323-02	4323-02	Transport Clerk
4323-32	New	Transport Clerk, Train Goods
1324-02	1324-02	Transport Manager
3159-03	New	Transport Supervisor, Halal Logistics Operation
6224-02	6224-02	Trapper
6341-14	New	Trapper Subsistence
4221-03	4221-03	Travel Agency Clerk
1621-03	1621-03	Travel Agency Manager
3332-03	3332-03	Travel Agent
4221-07	4221-07	Travel Air Lines Clerk
4221-05	4221-05	Travel Clerk
4221-01	4221-01	Travel Consultant
4221-02	4221-02	Travel Coordinator
5113-02	5113-02	Travel Guide
3332-04	3332-04	Travel Organizer
4221-06	4221-06	Travel Ticket Issuing Clerk
1312-05	1312-05	Trawler Manager
6223-03	6223-03	Trawler Skipper
3311-10	New	Treasury Analyst
3311-09	New	Treasury Dealer
1211-10	1211-10	Treasury Manager
8131-39	8131-39	Treat Operator, Radioactive Waste
9214-02	9214-02	Tree Cutter
9215-04	9215-04	Tree Feller
9215-05	9215-05	Tree Planter
9621-18	9621-21	Trolley Boy
2619-03	2619-04	Trust Officer
1113-09	1113-09	Tuai Rumah
2399-06	New	Tuition Teacher
3634-36	New	Tukang Karut (Dikir Barat)
3112-10	3112-14	Tunnel Boring Machine Technician
8342-16	8342-16	Tunnel Concretor
8342-17	8342-17	Tunnel Fabricator
8342-18	8342-18	Tunnel Worker
3131-05	3131-05	Turbine Operator, Power Station
7312-07	New	Turner, Musical Instrument
7314-05	7314-05	Turner, Pottery and Porcelain
7612-09	7612-10	Turner, Wood (Hand)
2311-09	2311-11	Tutor
2311-16	New	Tutor, University
7321-03	7321-03	Typesetter
4131-01	4131-01	Typist
2543-03	2166-05	Typographical Designer

MASCO 2020	MASCO 2013	JOB TITLE
8141-23	New	Tyre Retreader
2145-19	2145-22	Tyre Technologist
		U
2543-13	New	UI Designer (User Interphase)
2311-04	2311-04	UiTM Assistant Lecturer Grade DM29
2311-03	2311-03	UiTM Lecturer Grade DM41
2311-25	New	UiTM Lecturer Grade DM45
2311-26	New	UiTM Lecturer Grade DM51
2311-27	New	UiTM Lecturer Grade DM53
2311-36	New	UiTM Lecturer Grade Khas C
3256-12	3256-13	Ultrasonographer
1113-12	1113-12	Undang
5163-02	5163-02	Undertaker
7631-04	7631-04	Underwater Diver
7212-06	7212-08	Underwater Welder
7631-03	7631-03	Underwater Worker
2141-45	New	Unit Process Design Engineer (UPD)
2311-01	2311-01	University Lecturer Grade DS45
2311-28	New	University Lecturer Grade DS51
2311-29	New	University Lecturer Grade DS53
2311-37	New	University Lecturer Grade Khas C
1324-24	New	Unmanned Aerial Vehicle Manager (UAV)
2179-02	New	Unmanned Aerial Vehicle Pilot
7624-07	7624-07	Upholsterer, Aircraft
7624-01	7624-01	Upholsterer, Furniture
7624-09	7624-09	Upholsterer, Orthopaedic
7624-08	7624-08	Upholsterer, Railway Carriage
7624-02	7624-02	Upholsterer, Vehicle
8332-13	New	Uploader Machinery Driver
2164-07	New	Urban and Regional Planners
2164-03	2164-04	Urban and Rural Planner
2164-01	2164-01	Urban and Rural Planning Officer Grade J41
2212-62	2212-62	Urologist
2513-11	New	User Experience Engineer
2514-34	New	User Interface (UI)/ Gameplay Coders
2371-01	2371-02	Ustaz/Ustazah
2543-14	New	UX Designer (User Experience)
2513-06	New	User Interface (UI) / User Experience (UX) Front-End Developer
		V
6129-01	6129-02	Vaccinator
8131-26	8131-26	Vacuum Pan Chemical Operator (Except Petroleum and Natural Gas)
8161-16	8161-16	Vacuum Pan Operator, Condensed Milk
5162-04	5162-04	Valet
2121-13	New	Valuation Actuarie
4419-09	3315-01	Valuation Assistant Grade W19
2912-03	2912-04	Valuation Officer
2153-20	New	Value-added Services Engineer (VAS)
3315-02	3315-03	Valuer
8171-11	8171-13	Valve Operator
8171-07	8171-07	Valve Operator, Paper Pulp
2145-08	2145-10	Varnish Engineer
7132-04	7132-04	Varnisher
7132-05	7132-05	Varnisher, Manufactured Articles
7132-06	7132-06	Varnisher, Metal
7132-08	7132-08	Varnisher, Rattan
7132-07	7132-07	Varnisher, Wood

MASCO 2020	MASCO 2013	JOB TITLE
2144-55	New	Vechicle Engineer
7514-08	New	Vegetable /Fruit Pickler
6115-01	6115-01	Vegetable Grower
7514-05	7514-05	Vegetable Juice Maker
9211-12	9211-14	Vegetable Picker
7514-02	7514-02	Vegetable Preserver
2163-27	New	Vehicle Designer
7231-08	7231-10	Vehicle Foreman
3154-01	3154-01	Vehicle Technician
7231-10	7231-12	Vehicles Body Frame Maker
3154-05	3154-05	Vehicles Body Frame Technician
7231-11	7231-13	Vehicles Body Panel's Beater
3257-19	3257-19	Vehicles Safety Inspector
7612-07	7612-08	Veneer Applier
2212-63	2212-63	Venereologist
2847-06	2847-06	Ventriloquist
3343-08	3343-08	Verbatim Reporter
2831-07	2831-07	Versifier
2251-02	2251-03	Veterinarian
2251-07	New	Veterinarian, Surgery
3241-06	3241-06	Veterinary Artificial Insemination Assistant
3241-07	New	Veterinary Artificial Inseminator
3241-05	3241-05	Veterinary Assistant
3241-01	3241-01	Veterinary Assistant Grade G19
3241-08	3241-08	Veterinary Biotech Production Technician
3241-03	3241-03	Veterinary Biotech Research Technician
2426-06	2426-09	Veterinary Biotech Researcher
2251-03	2251-04	Veterinary Epidemiologist
1311-11	New	Veterinary Manager
3241-09	3241-09	Veterinary Nurse
2251-01	2251-01	Veterinary Officer Grade GV41
2251-04	2251-05	Veterinary Surgeon
3241-02	3241-02	Veterinary Technician
3241-04	3241-04	Veterinary Vaccinator
5164-04	New	Veterinary Worker
1112-39	New	Vice Admiral Maritime
1615-09	1615-09	Vice Chancellor
2542-19	2166-26	Video Game Artist
2514-12	2514-12	Video Game Programmer
3521-23	New	Videographer
1511-08	New	Village Community Center Manager
1113-04	1113-04	Village Head
3253-04	3253-04	Village Health Worker
2131-05	2131-06	Virologist
2543-07	New	Virtual Environment Designer
2542-21	New	Visual Effects Artist
3632-10	3632-10	Visual Merchandiser
2391-06	2391-06	Visual Teaching Aid Specialist
2541-26	New	Visualization Specialist
2541-18	New	Visualizer
2842-12	2842-12	Vocal Group Conductor
2423-13	2423-13	Vocational Guidance Counsellor
2424-02	2424-02	Vocational Staff Training Officer
2399-03	2399-06	Vocational Student Counsellor
5312-08	2381-01	Vocational Training Assistant DV19
5312-10	New	Vocational Training Assistant DV21
1615-15	New	Vocational Training Manager
2381-01	2381-01	Vocational Training Officer Grade DV41

MASCO 2020	MASCO 2013	JOB TITLE
2381-09	New	Vocational Training Officer Grade DV43
2381-10	New	Vocational Training Officer Grade DV47
2381-11	New	Vocational Training Officer Grade DV51
2381-12	New	Vocational Training Officer Grade DV53
2151-15	2151-17	Voltage Regulator Designer
		W
2151-28	New	Wafer Fabrication Electrical Process Engineer
2152-31	New	Wafer Fabrication Electronic Process Engineer
3114-05	New	Wafer Fabrication Electronic Technicians
2152-29	New	Wafer Fabrication Engineer
3115-30	New	Wafer Fabrication Mechanical Technicians
3719-05	3719-07	Wage Inspector
4313-02	4313-02	Wages Clerk
5131-01	5131-01	Waiter
5131-03	5131-03	Waiter, Banquet
7131-06	7131-07	Wall Paperhanger
5153-05	5153-05	Warden, Camp
5153-04	5153-04	Warden, Dormitory
5153-03	5153-03	Warden, Hostel
4321-09	4321-09	Warehouse Assistant
4321-03	4321-03	Warehouse Clerk
2182-06	2182-06	Warehouse Executive
1324-04	1324-04	Warehouse Manager
2182-23	New	Warehouse Operation Officer
3122-29	New	Warehouse Supervisor, Halal Logistics Operation
3119-17	3119-25	Warehouse Technician
9122-03	9122-03	Washer, Auto-polish
9129-06	New	Washer, Hand Manufacturing
9122-02	9122-02	Washer, Vehicle (Hand)
2263-28	New	Waste Management Competence Person
9612-05	9612-05	Waste Picker
1622-19	New	Waste Water Assistant Manager
3119-41	New	Waste Water Assistant Technician
1622-18	New	Waste Water Manager
3132-14	3132-14	Waste Water Operator
3119-40	New	Waste Water Technician
3257-43	3257-43	Waste Water Treatment Plant Inspector
7311-15	7311-15	Watch and Clock Repairer
7311-07	7311-07	Watches and Clock Maker
5414-21	5414-13	Watchman
5414-20	New	Watchman Grade K3
1622-17	New	Water Assistant Manager
3119-39	New	Water Assistant Technician
9624-02	9624-02	Water Carrier
3257-35	3257-35	Water Inspector
2146-42	New	Water Management Engineer
1622-16	New	Water Manager
3119-49	New	Water Quality Technician
3132-15	3119-04	Water Supply Superintendant Grade J19
3119-38	New	Water Technician
3132-09	3132-09	Water Treatment Plant Operator
1321-22	New	Wave Energy Producer
2412-16	New	Wealth Consultant
0311-10	0311-10	Weapon Sensor Branch Officer
0321-10	0321-05	Weapon Technician
0131-64	New	Weapons Engineering Technician
2112-07	2112-08	Weather Forecaster

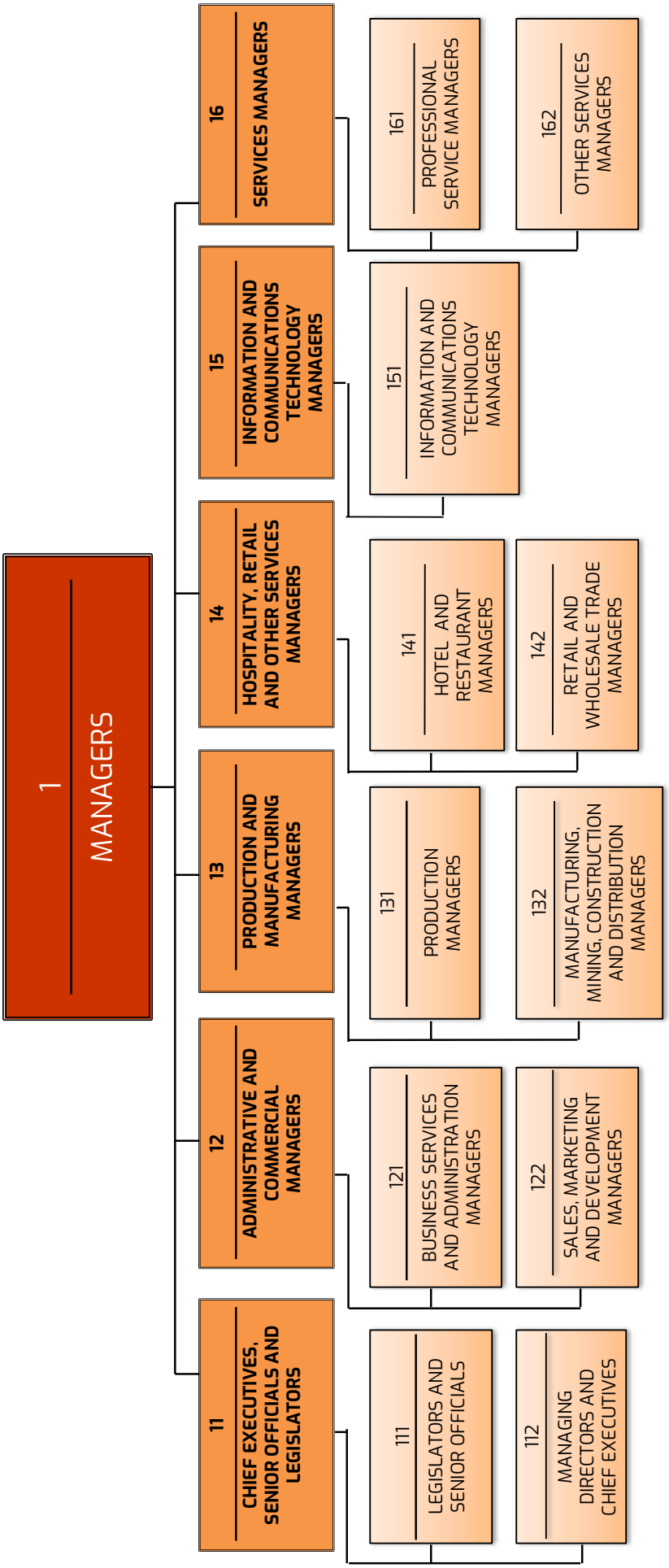
MASCO 2020	MASCO 2013	JOB TITLE
2112-14	2112-15	Weather Service Specialist
3111-27	New	Weather Station Assistant
7621-22	7621-23	Weaver, Hand Cloth
7318-01	7318-01	Weaver, Songket
3115-43	New	Weaving Technician
2141-35	New	Weaving Technologist
2513-10	New	Web and Mobility Developer
2541-25	2166-31	Web Animator
2543-01	2166-02	Web Designer
7322-12	7322-12	Web Press-Operator
2512-16	2512-16	Web Programmer Hypertext Preprocessor (PHP)
3514-02	3514-02	Web Technician
2513-04	2513-04	Webmaster
2513-05	2513-05	Website Administrator
2513-03	2513-03	Website Architect
2513-01	2513-01	Website Developer
3514-01	3514-01	Website Technician
3332-06	3332-06	Wedding Planner
7634-09	7634-09	Weed Controller
4321-23	4321-23	Weighbridge-Security Controller
4321-22	4321-22	Weighing Clerk
3719-04	3719-06	Weight and Measures Inspector
7212-01	7212-03	Welder
2144-36	New	Welding Engineer
1321-10	New	Welding Manager
3115-28	New	Welding Technician
2144-24	2144-27	Welding Technologist
1614-04	1614-04	Welfare Centre Manager
3611-03	3611-05	Welfare Officer, Industry
3611-04	3611-06	Welfare Officer, Probation
3611-15	3611-17	Welfare Organizer
3611-23	3611-25	Welfare Support Worker
3117-15	3117-16	Well Acidising Treater
7126-08	7126-11	Well Digger
2146-51	New	Well Engineer
2424-06	New	Well Experience Trainer
2146-52	New	Well Integrity Engineer
2114-34	New	Well Site Geologist
2146-38	New	Wellsite Corrosion Engineer
2146-32	New	Wellsite Engineer (Planning)
4323-21	4323-21	Wharfinger
7234-06	7234-06	Wheelchair Repairer
5211-08	5211-08	Wholesale and Retail Salesperson
1421-04	1421-05	Wholesale Trade Manager
1421-09	1421-12	Wholesale Trade Manager, Export
1421-10	1421-13	Wholesale Trade Manager, Import
1421-03	1421-04	Wholesaler
7317-09	7317-10	Wicker Maker
5419-04	5419-05	Wild Life Warden
5419-30	3142-02	Wildlife Assistant Grade G11
3143-06	3142-02	Wildlife Assistant Grade G19
2131-01	2131-01	Wildlife Officer Grade G41
8342-09	8342-09	Winchman, Dredging
2141-58	New	Wind Energy Engineer
9321-06	9329-03	Winder, Coil Hand
3632-23	3632-23	Window Dresser
3632-13	3632-13	Windows Display Designer
3113-02	3113-03	Wire Cutting Technician

MASCO 2020	MASCO 2013	JOB TITLE
2152-26	2152-39	Wirebond Engineer
2153-12	New	Wireless Network Engineer
3512-16	4419-03	Wireless Operator Grade N19
8113-16	New	Wireline Operator
7412-06	New	Wireman
2825-11	2825-12	Women's Welfare Organizer
3611-24	3611-26	Women's Shelter Supervisor
2133-15	2133-15	Wood Analyst
2133-09	2133-09	Wood Anatomist
7115-11	7115-13	Wood Engraver
7611-01	7611-01	Wood Impregnator
7612-18	7612-19	Wood Patternmaker
7611-03	7611-03	Wood Seasoner
2141-23	2141-23	Wood Technologist
7611-02	7611-02	Wood Treater
0131-21	New	Wood Worker and Joiner
7312-06	New	Wood-Wind Musical Instrument Maker
0321-14	New	Woodworker Technician
7613-06	7613-09	Woodworking Machine Setter
7613-07	7613-10	Woodworking Machine Set-Up Operator
7633-03	7633-03	Wool Classer
2141-12	2141-12	Work Study Engineer
9122-04	9122-04	Worker, Auto-Sanding
6123-05	New	Worker, Beekeeping: Skilled
7112-04	7112-04	Worker, Brickwork
7111-02	7119-01	Worker, Building Maintenance
9211-19	9211-21	Worker, Crop Carm Product
7324-05	7324-05	Worker, Darkroom
7221-03	7221-04	Worker, Drop-Hammer
6331-03	New	Worker, Farm: Skilled (Subsistence Farming)
9216-08	9216-08	Worker, Fishery and Aquaculture Product
7221-04	7221-05	Worker, Forging Metal
9611-01	9611-01	Worker, Garbage Disposal
9214-04	9214-04	Worker, Golf Course Maintenance
9211-10	9211-12	Worker, Harvesting
8141-21	8141-21	Worker, Heavecrumb Process
5322-10	New	Worker, Home Care
5152-07	New	Worker, Housekeeping
6129-02	6129-03	Worker, Incubator
7114-04	7114-04	Worker, Iron Reinforcing
9121-01	9121-01	Worker, Laundry and Dry Cleaning
9313-03	9313-03	Worker, Maintenance
9211-09	9211-11	Worker, Manuring
8112-07	8112-07	Worker, Mineral Floatation
9214-03	9214-03	Worker, Playground Maintenance
9216-07	9216-07	Worker, Salty Egg
9216-06	9216-06	Worker, Salty Fish
6123-08	New	Worker, Sericultural: Skilled
7621-09	7621-10	Worker, Sewing
9333-03	9333-03	Worker, Shipyard
9312-03	9312-03	Worker, Site General
9311-07	9311-07	Worker, Stone
9333-15	9333-15	Worker, Store
9121-05	New	Worker, Sundries
9311-03	9311-03	Worker, Tin Mine
9129-01	9129-01	Worker, Toiletries
9333-16	9333-16	Worker, Warehouse
9129-02	9129-02	Worker, Washing

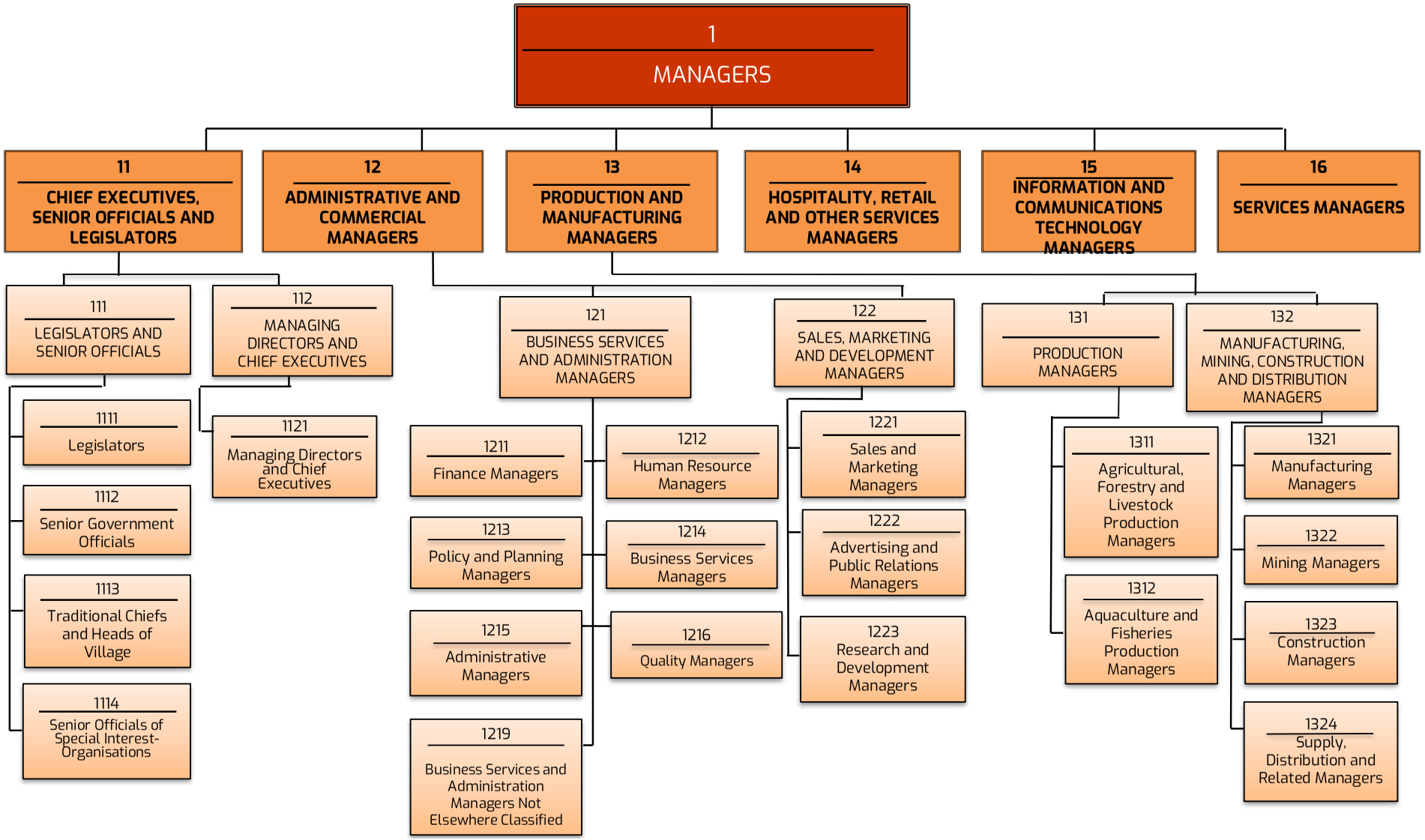
MASCO 2020	MASCO 2013	JOB TITLE
2424-03	2424-03	Workforce Development Specialist
7231-05	7231-07	Workshop Mechanic
3151-20	New	Workshop Planner, Aircraft
2174-05	New	Workshop Planning Executive, Aircraft
7231-07	7231-09	Workshop Worker
9321-03	9321-03	Wrapper (Hand)
3621-07	3621-07	Wrestler
8152-06	8152-06	Wrinkle Machine Operator, Textile
2831-09	2831-09	Writer, Comedy
		X
2269-01	2269-01	X-Ray Technician Grade U41
		Y
3152-03	3152-03	Yacht Skipper
8312-04	8312-04	Yardman
4323-08	4323-08	Yardmaster Railway
8131-36	8131-36	Yarn Maker, Synthetic
7512-05	7512-05	Yeast Maker
3622-12	3622-16	Yoga Coach
7513-02	7513-02	Yogurt Maker
4419-14	3622-05	Youth and Sport Assistant Grade S19
2825-12	3622-01	Youth and Sports Officer Grade S41
3611-25	3611-27	Youth Worker
		Z
5164-03	5164-04	Zookeeper
3141-10	3141-10	Zoological Research Laboratory Assistant
3141-09	3141-09	Zoological Technician
2131-39	2131-40	Zoologist
2131-49	2131-50	Zoologist, Ecology
2131-40	2131-41	Zoologist, Embryology
2131-41	2131-42	Zoologist, Entomology
2131-42	2131-43	Zoologist, Histology
2131-43	2131-44	Zoologist, Ichthyology
2131-44	2131-45	Zoologist, Mammalogy
2131-45	2131-46	Zoologist, Ornithology
2131-46	2131-47	Zoologist, Parasitology
2131-47	2131-48	Zoologist, Pisciculture
2131-48	2131-49	Zoologist, Taxonomy

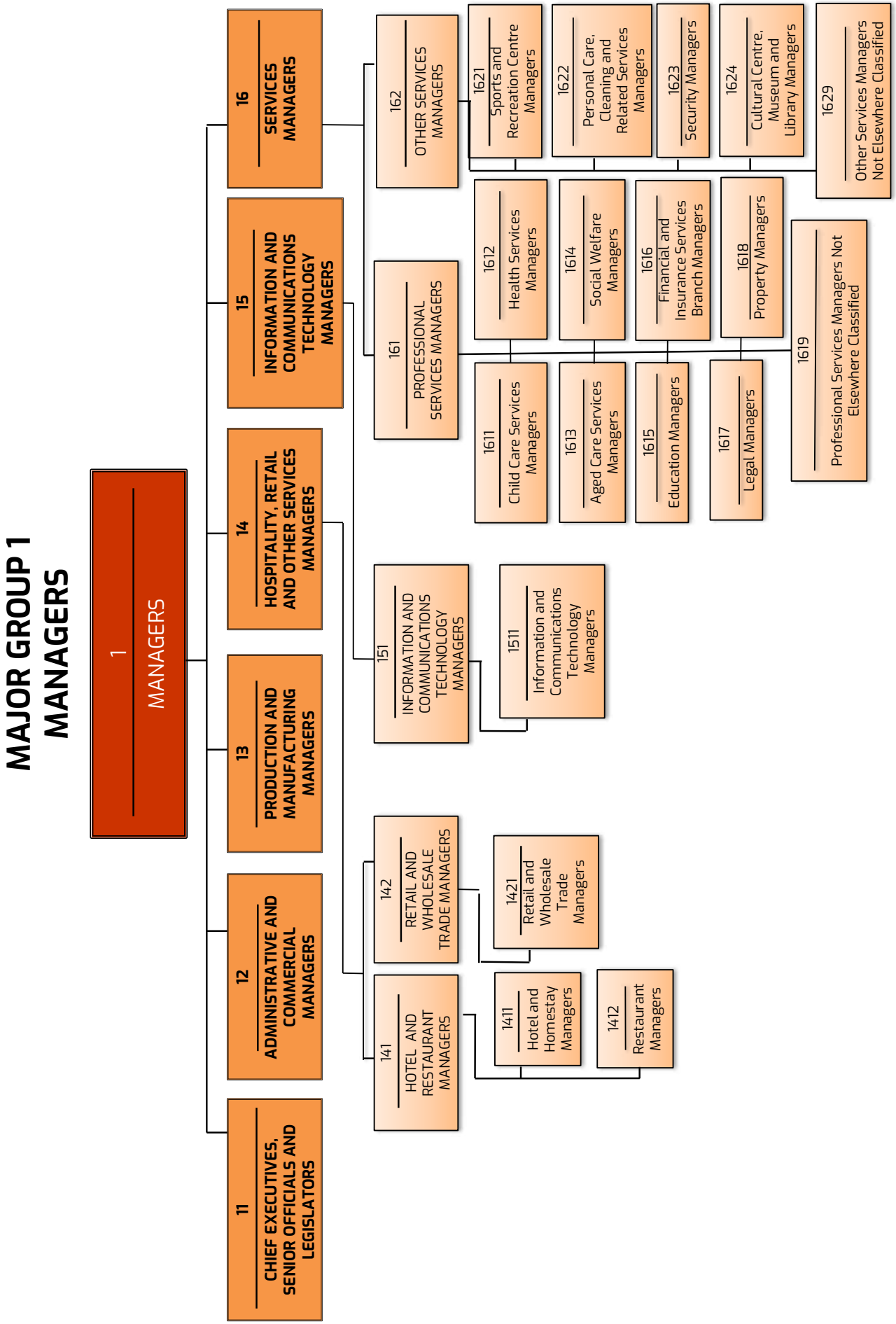
MASCO CHART

MAJOR GROUP 1
MANAGERS

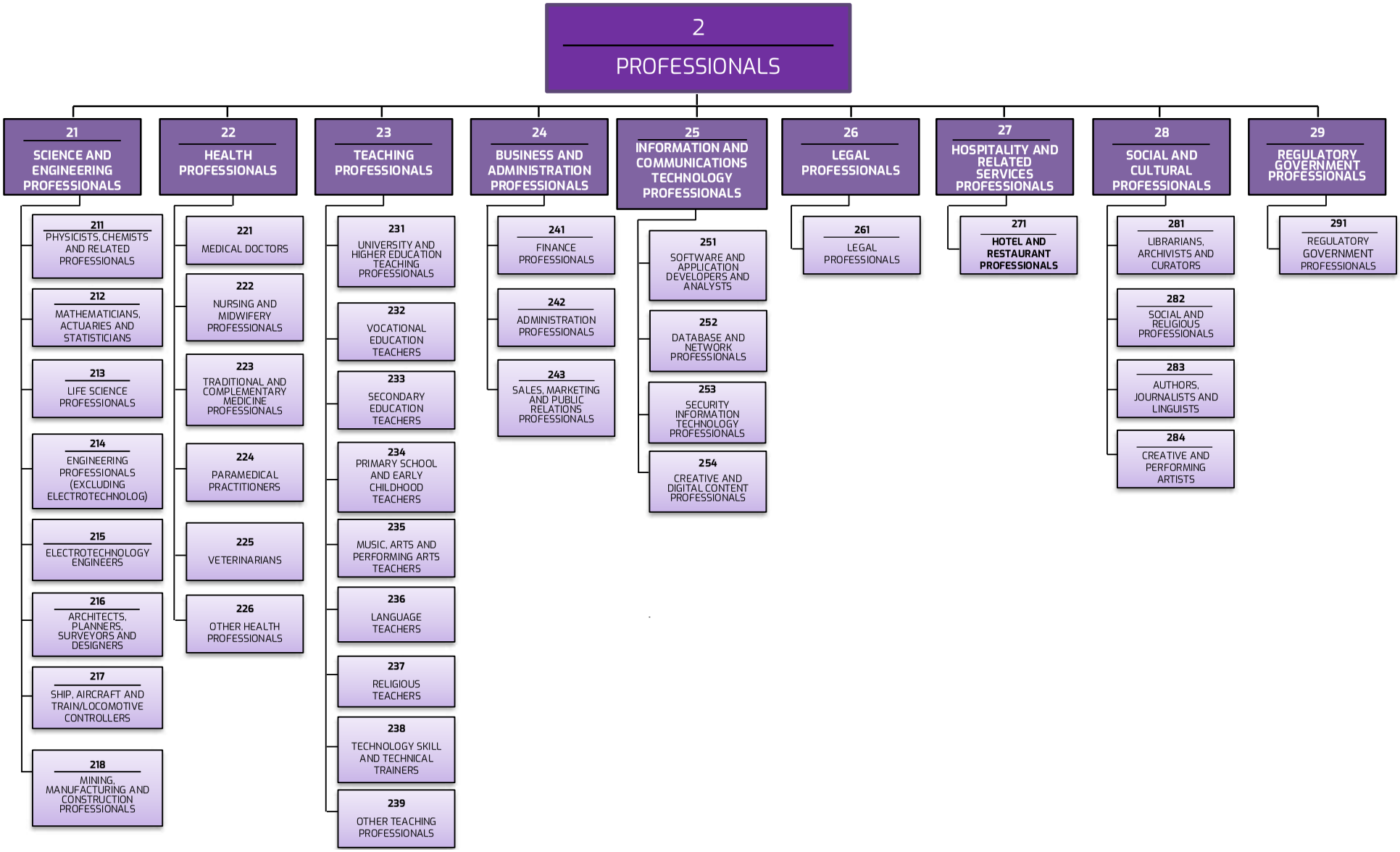


MAJOR GROUP 1
MANAGERS

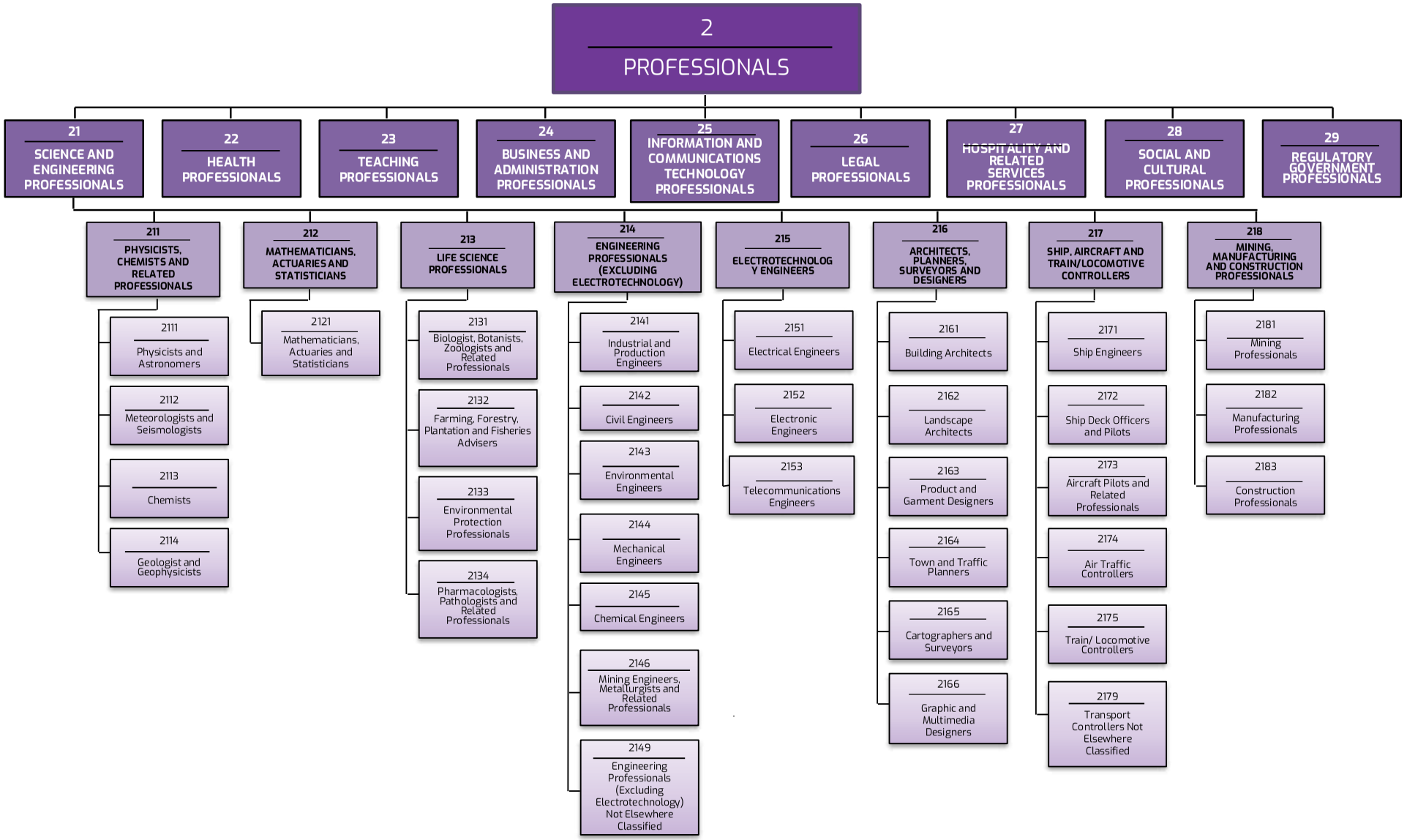



MAJOR GROUP 1
MANAGERS
1
MANAGERS
11
CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS
12
ADMINISTRATIVE AND COMMERCIAL MANAGERS
13
PRODUCTION AND MANUFACTURING MANAGERS
14
HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS
15
INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS
16
SERVICES MANAGERS
141
HOTEL AND RESTAURANT MANAGERS
1411
Hotel and Homestay Managers
1412
Restaurant Managers
142
RETAIL AND WHOLESALE TRADE MANAGERS
1421
Retail and Wholesale Trade Managers
151
INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS
1511
Information and Communications Technology Managers
161
PROFESSIONAL SERVICES MANAGERS
1611
Child Care Services Managers
1612
Health Services Managers
1613
Aged Care Services Managers
1614
Social Welfare Managers
1615
Education Managers
1616
Financial and Insurance Services Branch Managers
1617
Legal Managers
1618
Property Managers
1619
Professional Services Managers Not Elsewhere Classified
162
OTHER SERVICES MANAGERS
1621
Sports and Recreation Centre Managers
1622
Personal Care, Cleaning and Related Services Managers
1623
Security Managers
1624
Cultural Centre, Museum and Library Managers
1629
Other Services Managers Not Elsewhere Classified

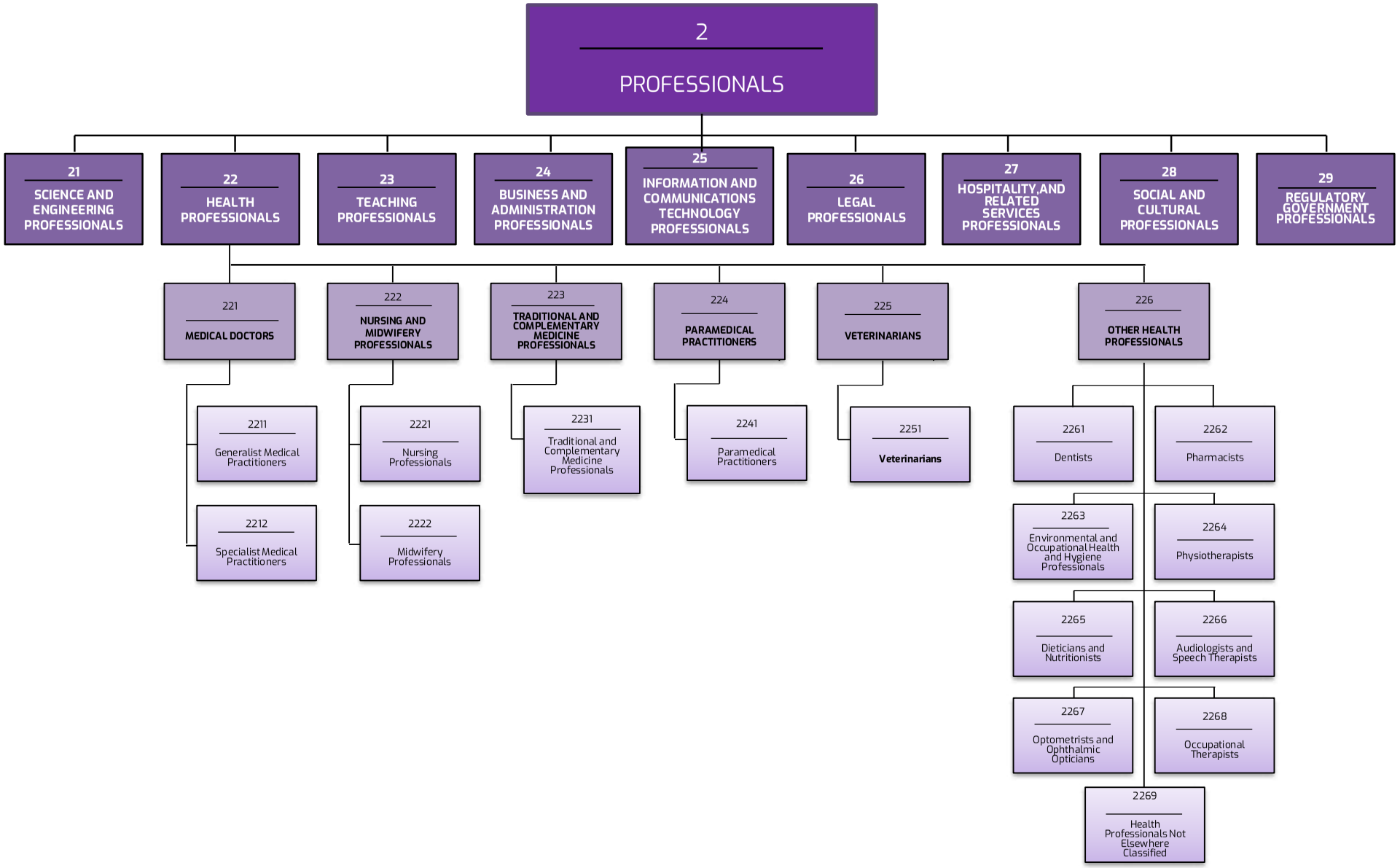
MAJOR GROUP 2
PROFESSIONALS



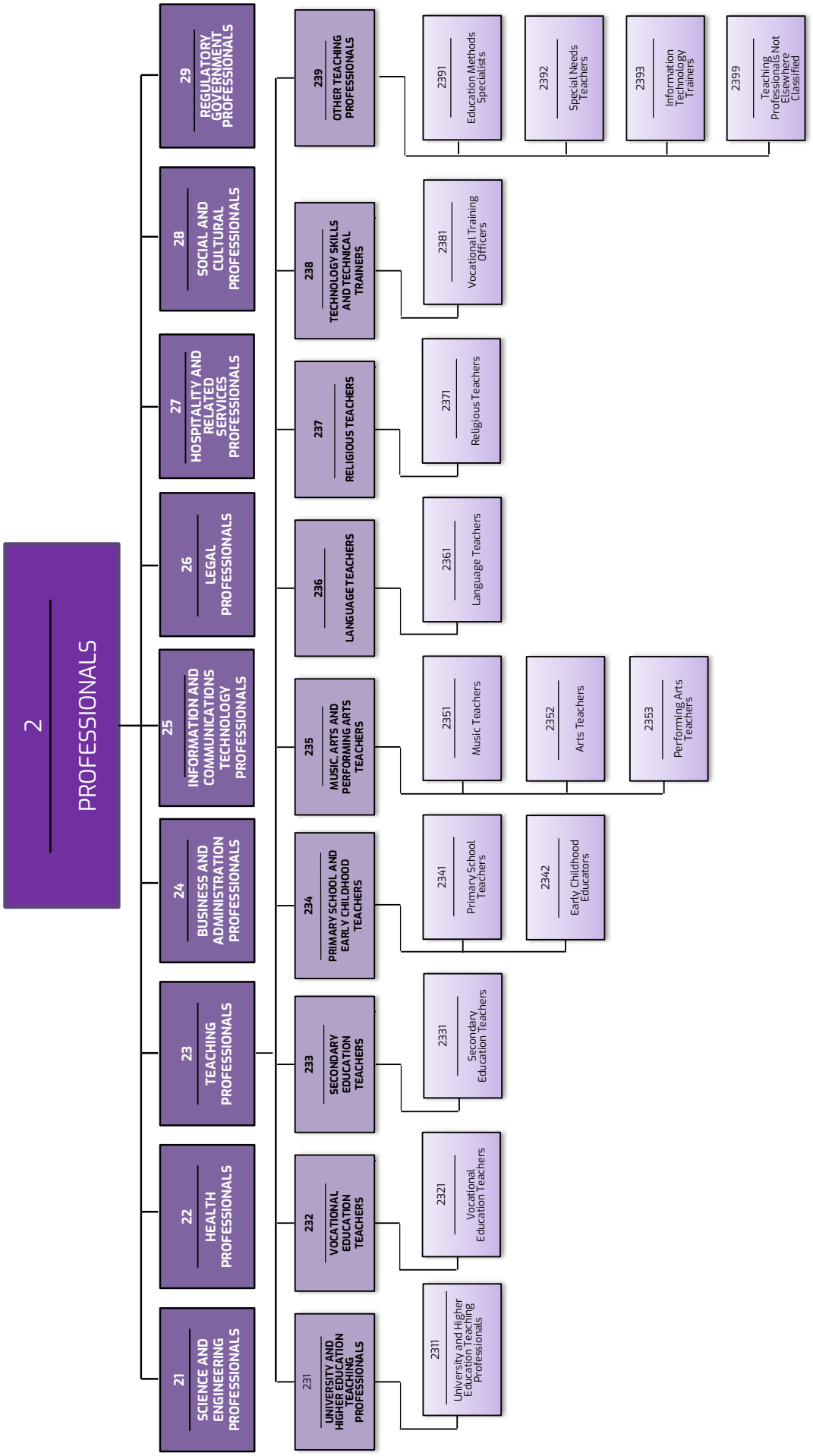
MAJOR GROUP 2 PROFESSIONALS



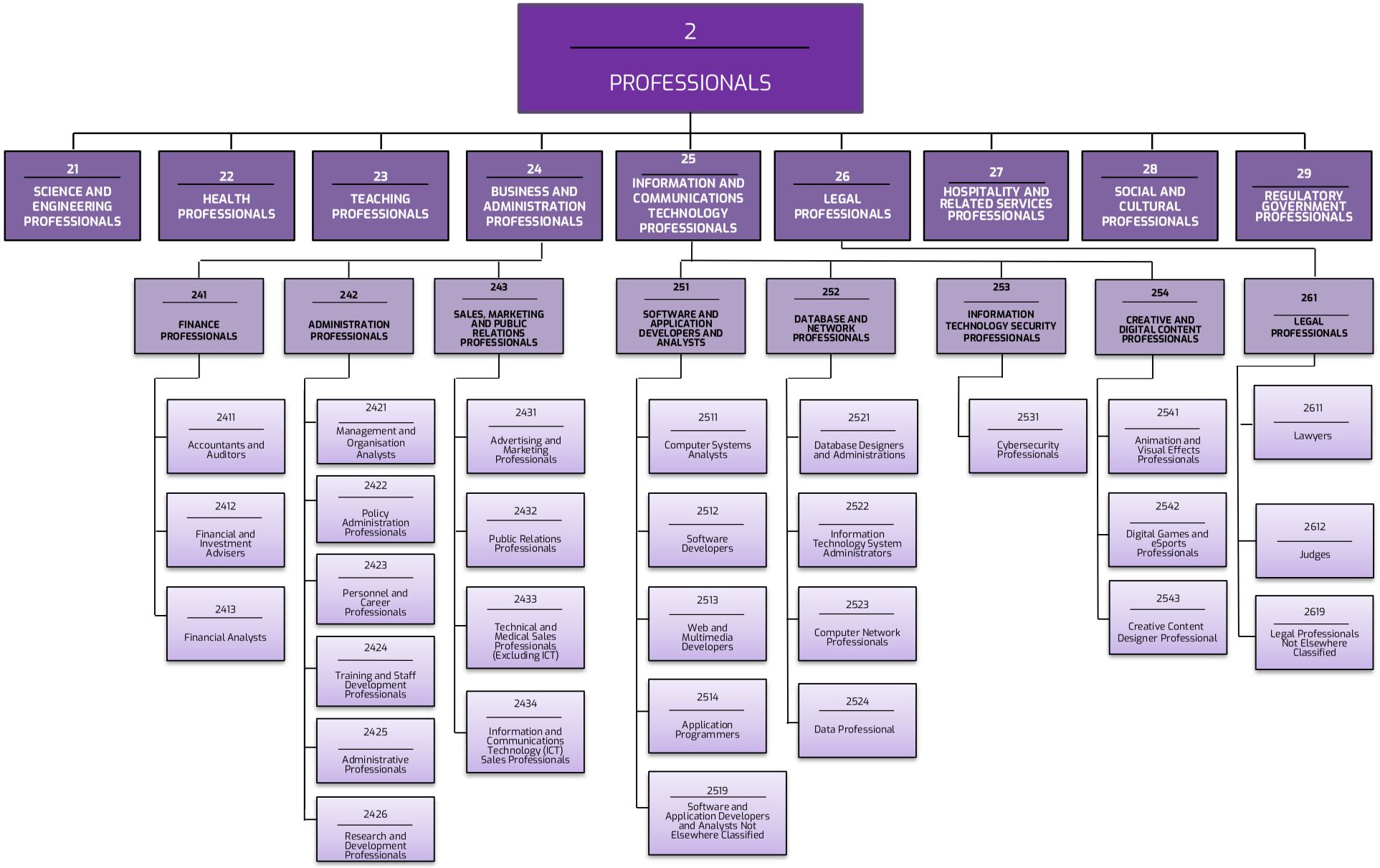
MAJOR GROUP 2
PROFESSIONALS



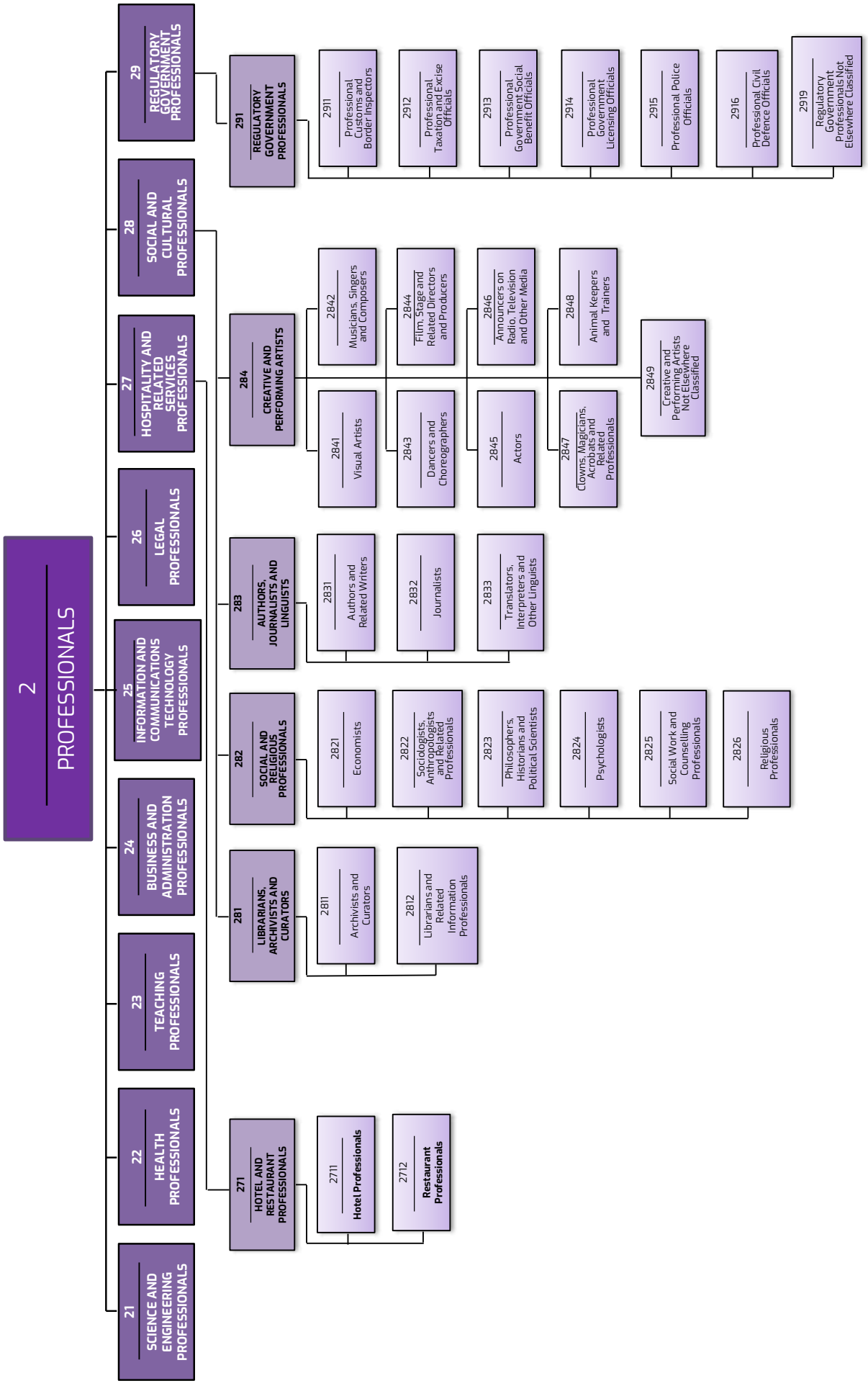
MAJOR GROUP 2
PROFESSIONALS



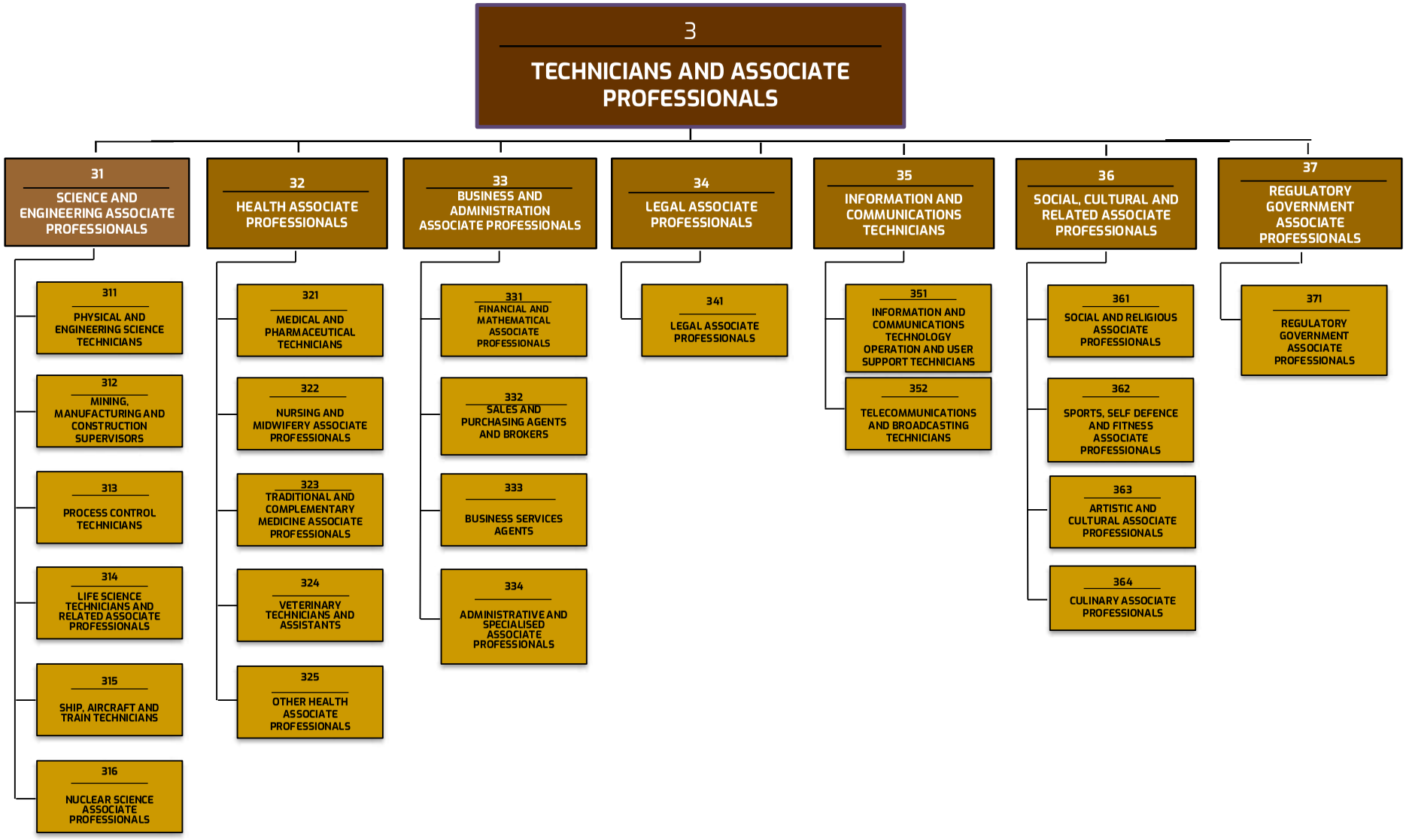
MAJOR GROUP 2
PROFESSIONALS



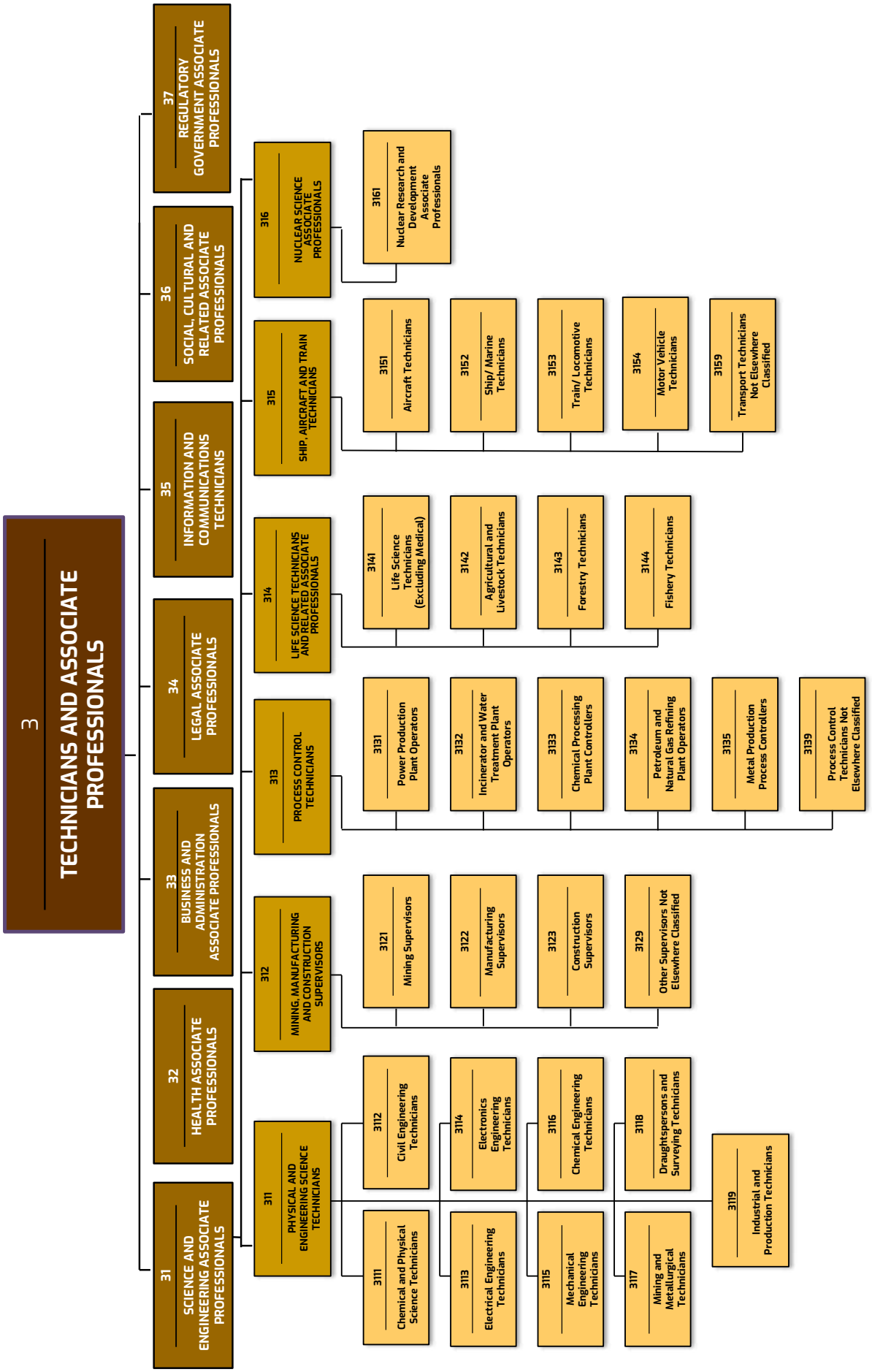
MAJOR GROUP 2 PROFESSIONALS



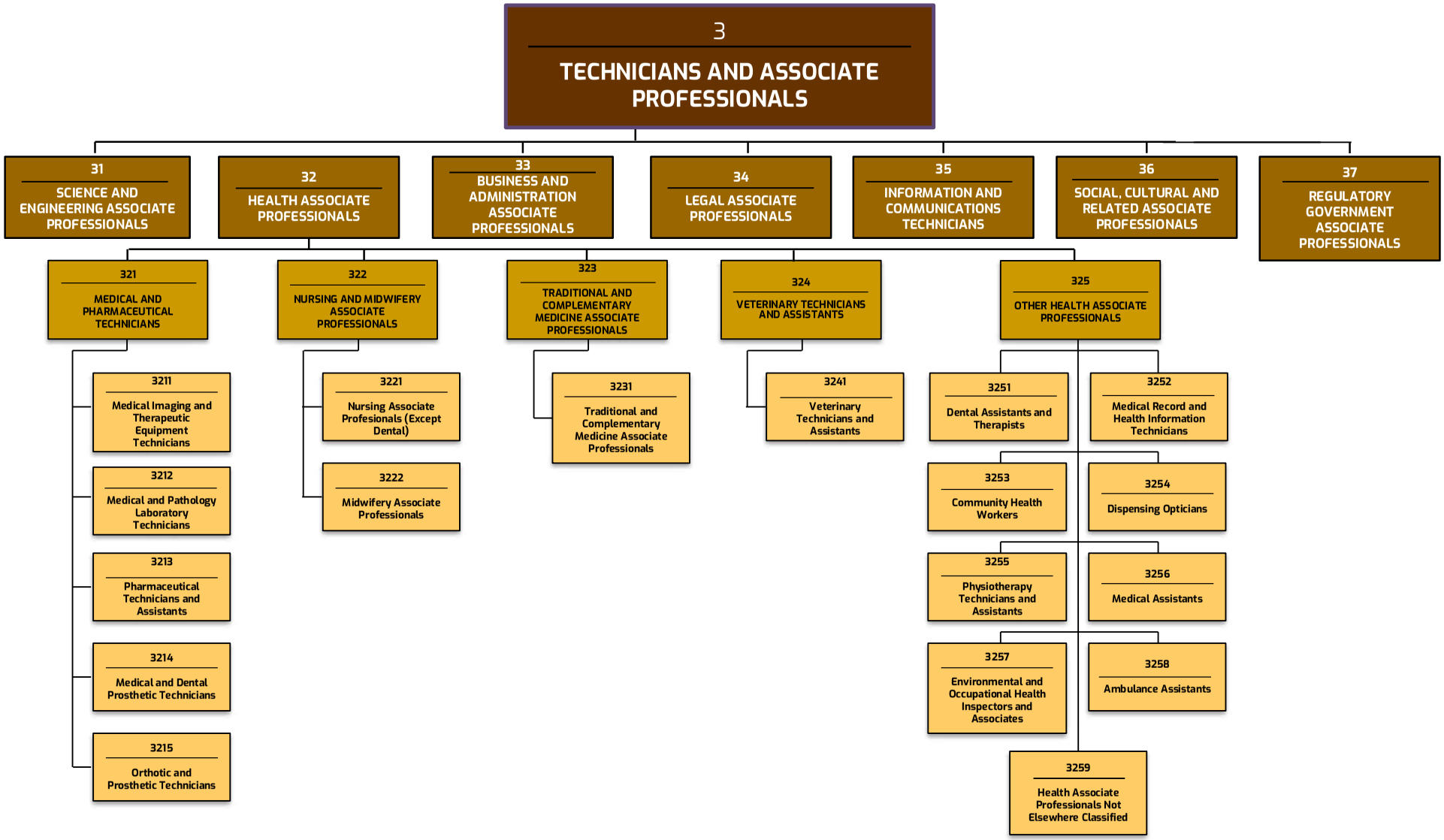
MAJOR GROUP 3
TECHNICIANS AND ASSOCIATE PROFESSIONALS



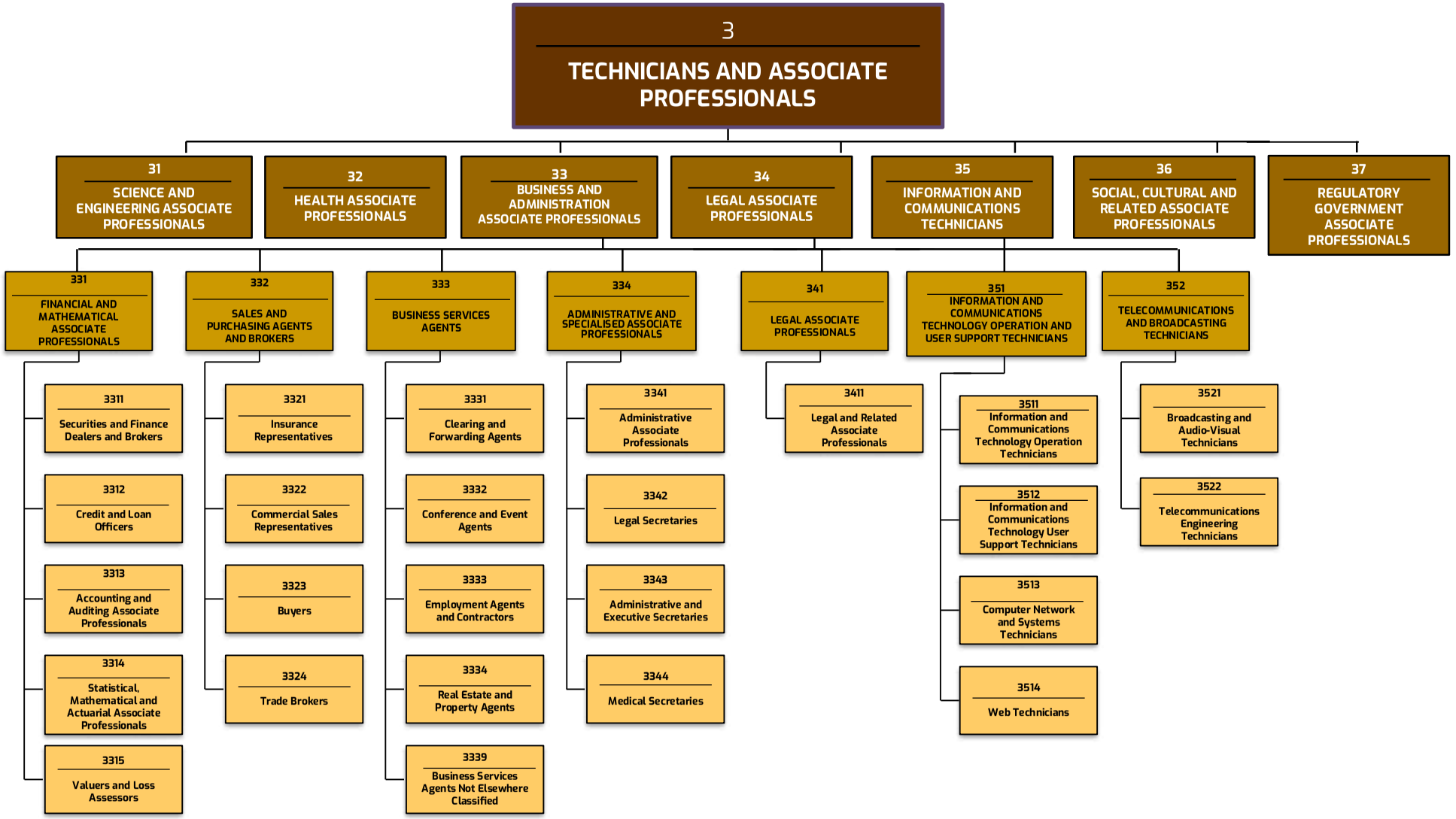
MAJOR GROUP 3
TECHNICIANS AND ASSOCIATE PROFESSIONALS



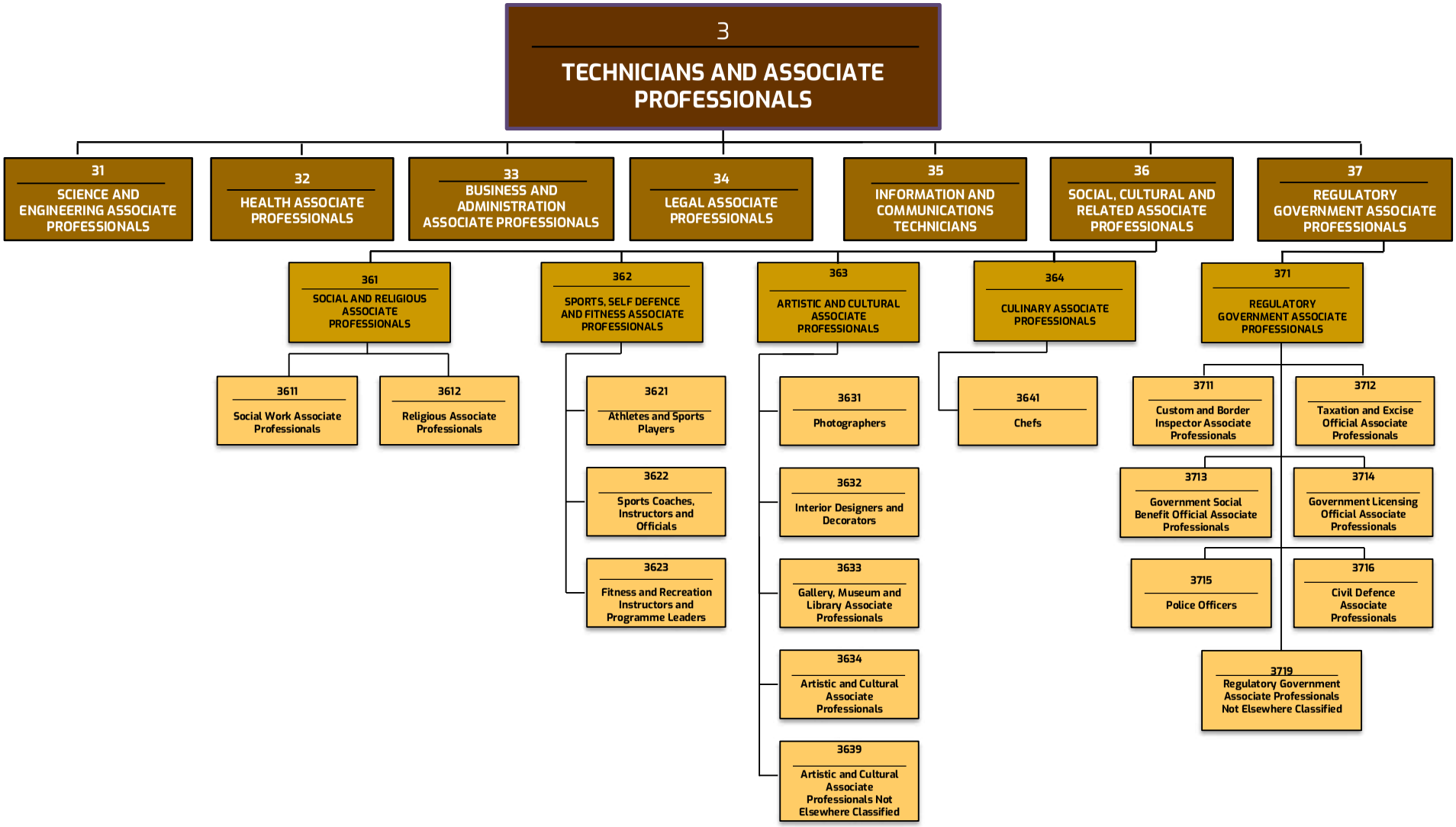
MAJOR GROUP 3
TECHNICIANS AND ASSOCIATE PROFESSIONALS



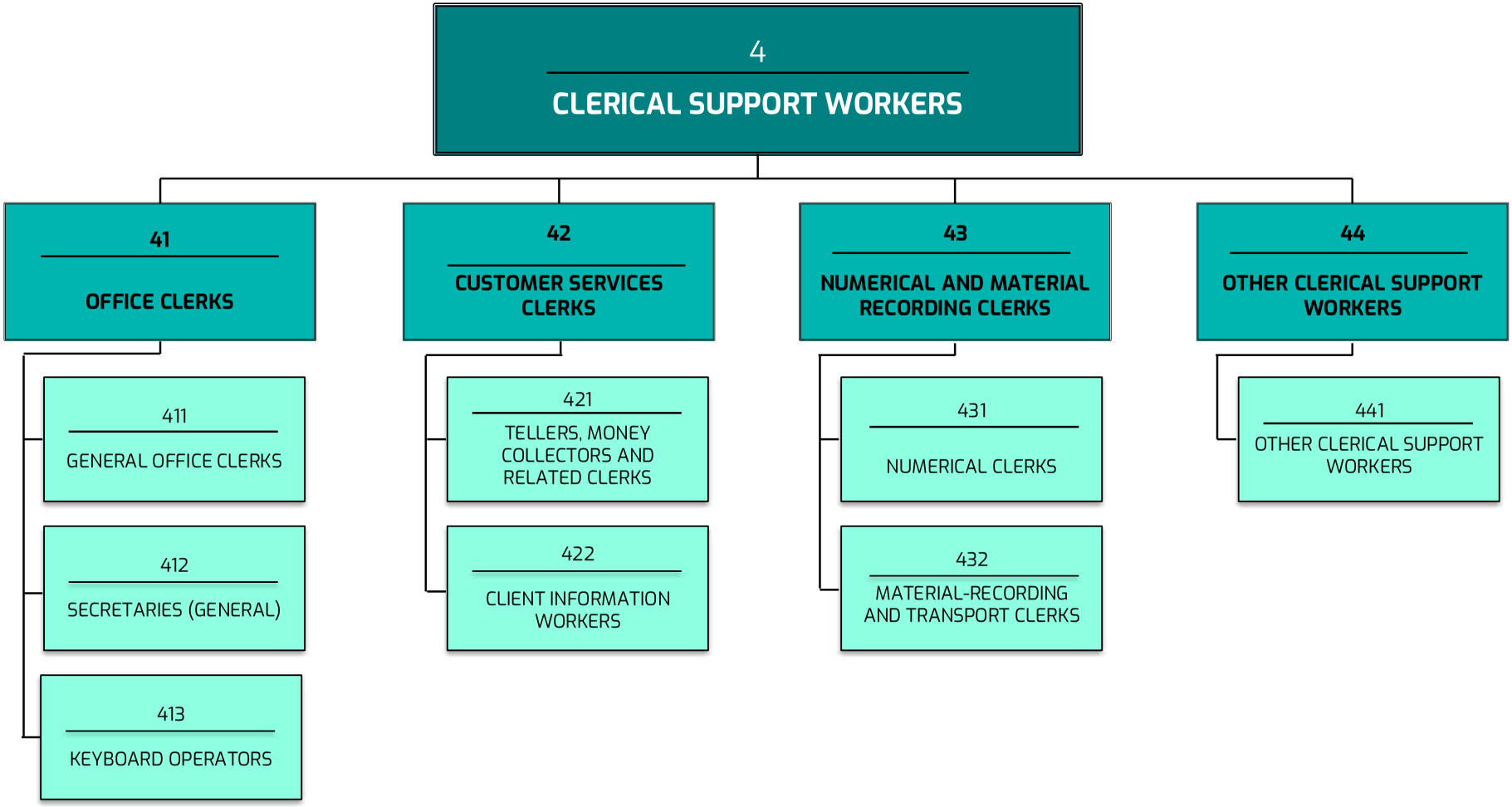
MAJOR GROUP 3
TECHNICIANS AND ASSOCIATE PROFESSIONALS



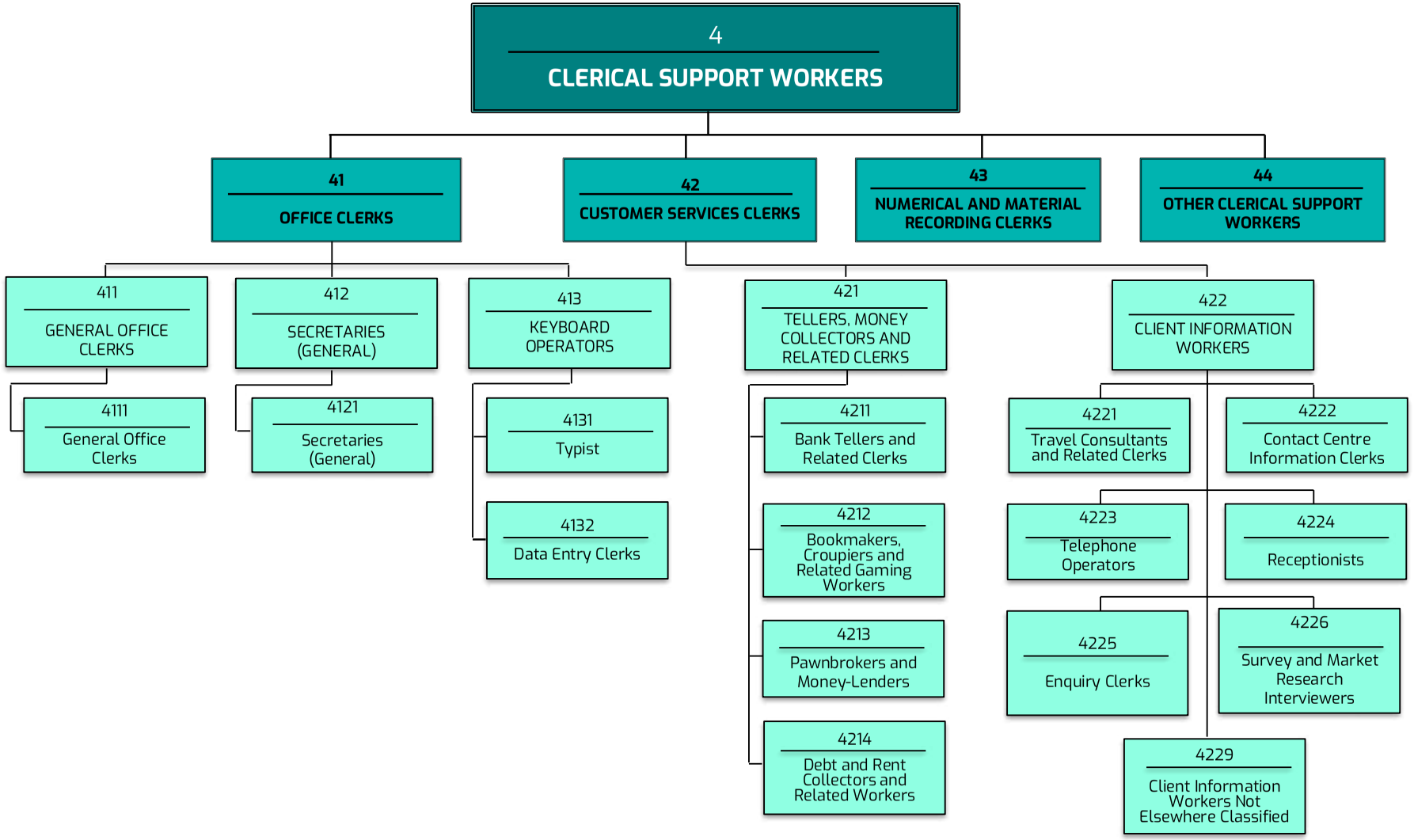
MAJOR GROUP 3
TECHNICIANS AND ASSOCIATE PROFESSIONALS



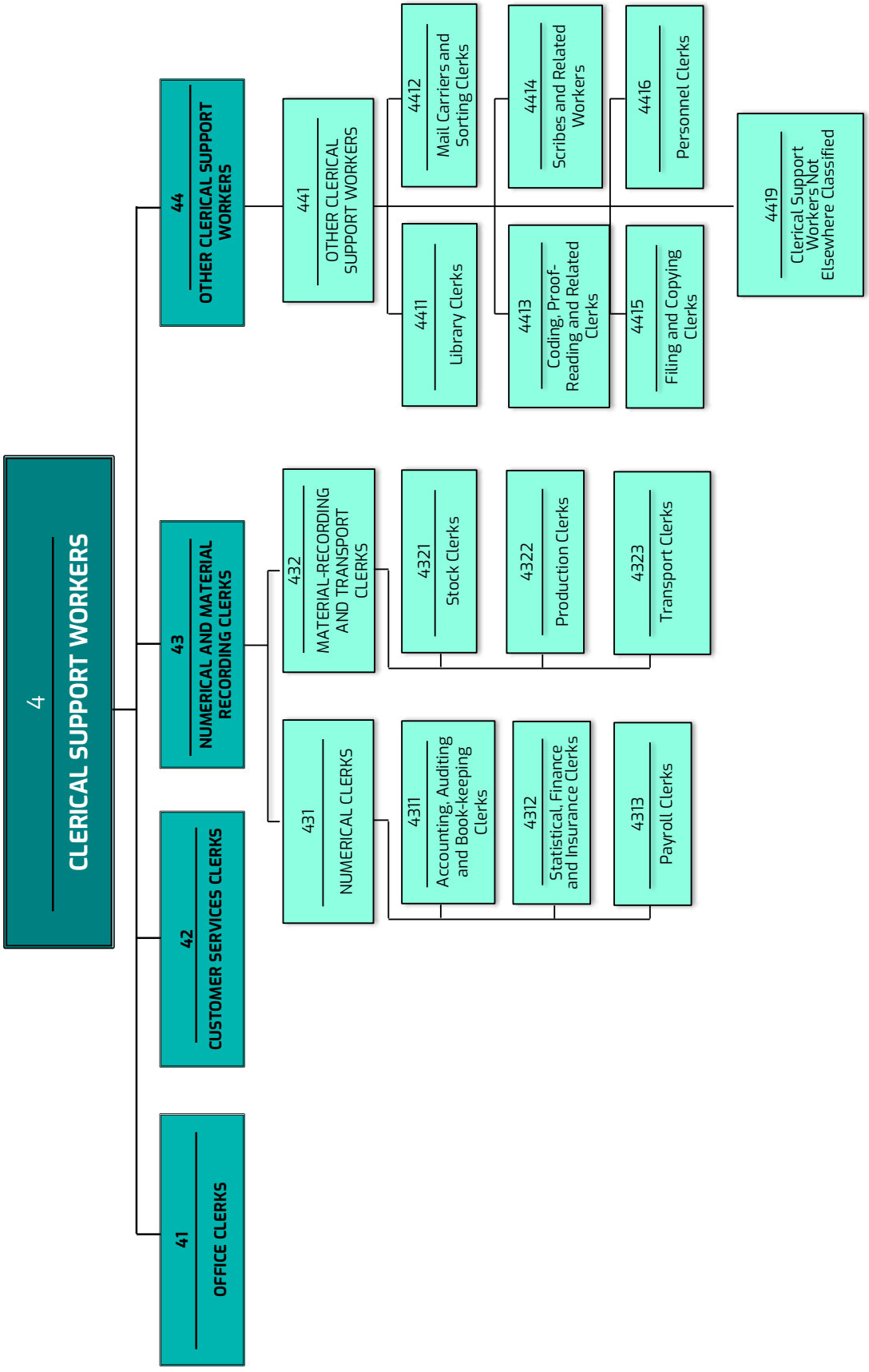
MAJOR GROUP 4
CLERICAL SUPPORT WORKERS



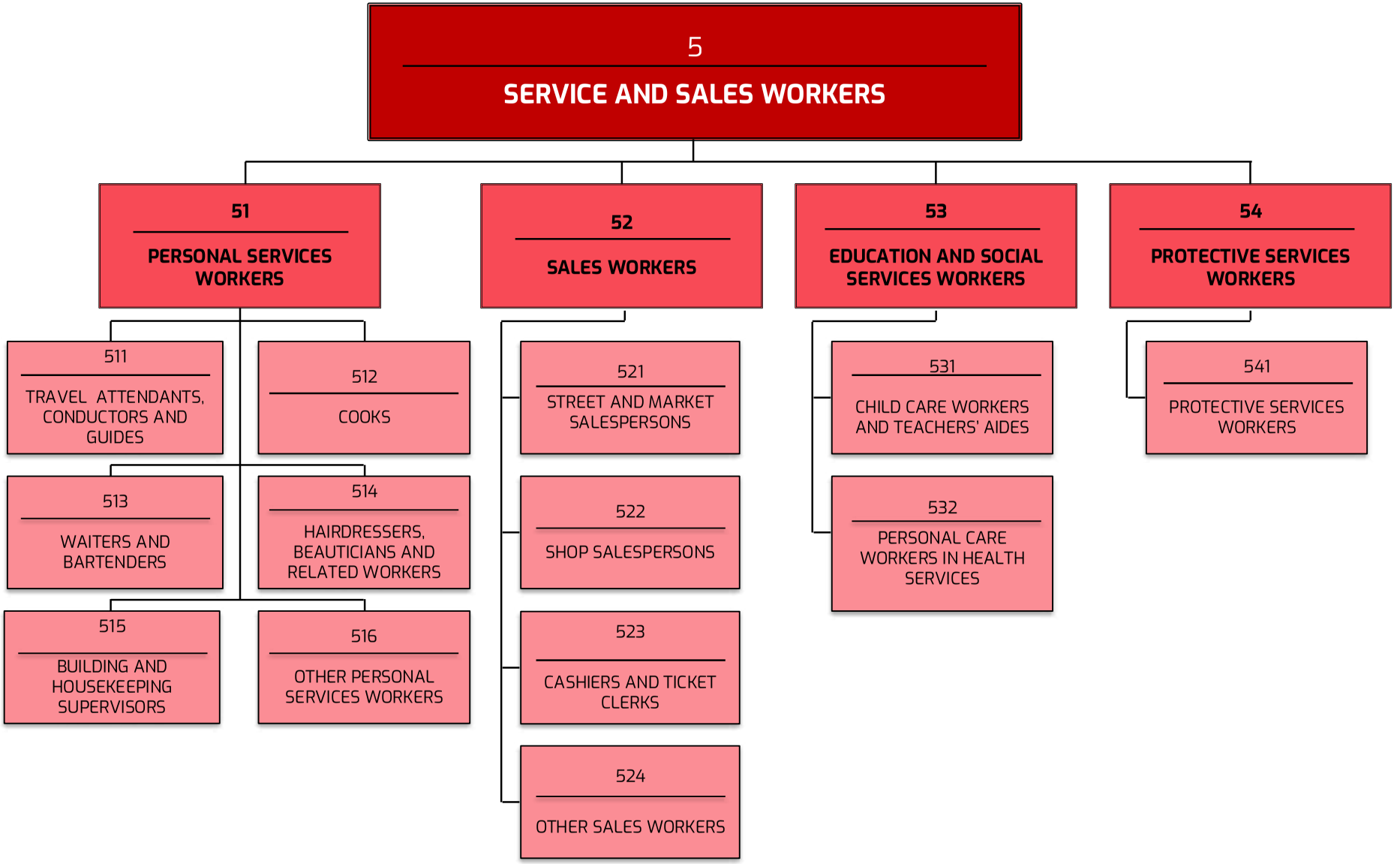
MAJOR GROUP 4
CLERICAL SUPPORT WORKERS



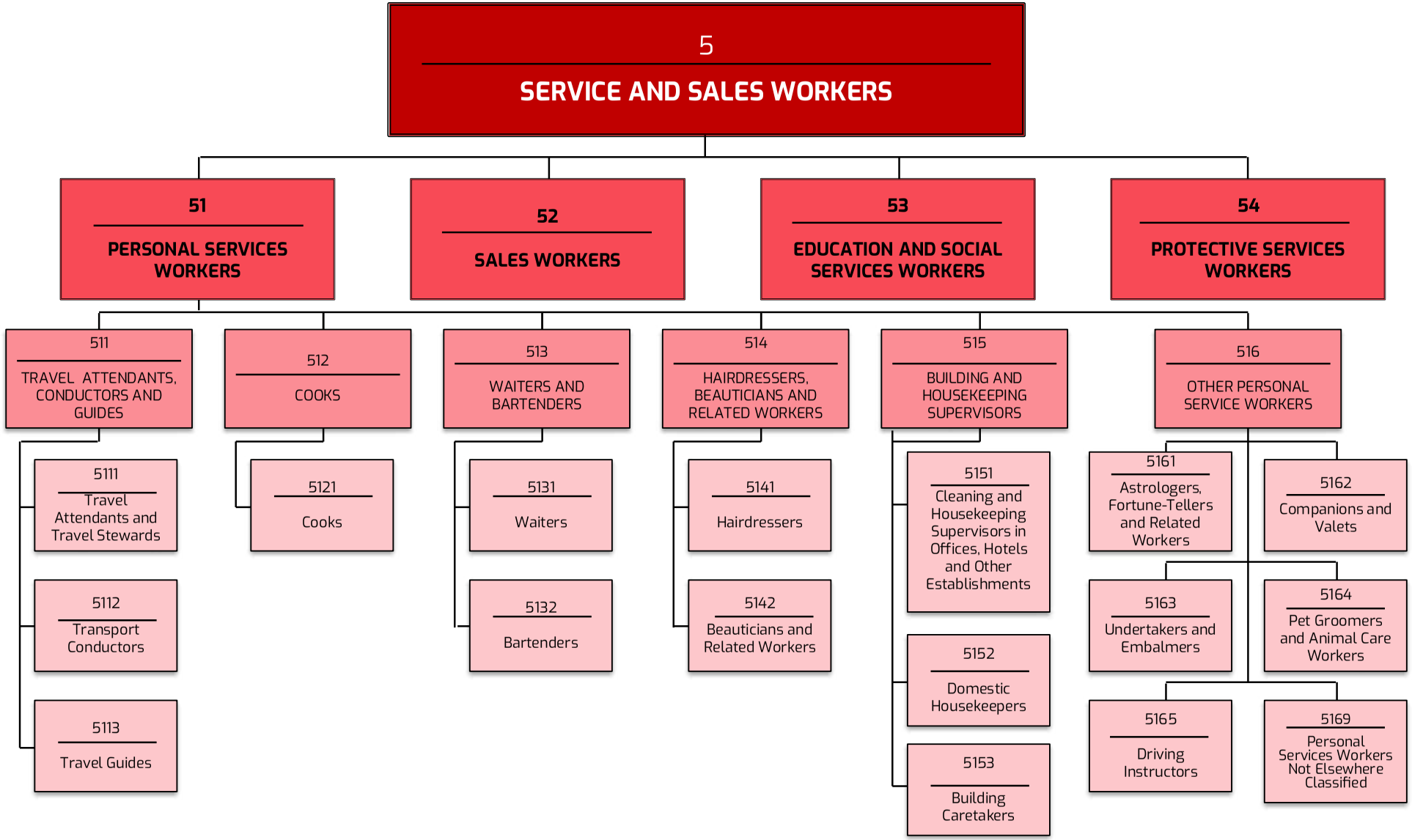
MAJOR GROUP 4
CLERICAL SUPPORT WORKERS



MAJOR GROUP 5
SERVICE AND SALES WORKERS



MAJOR GROUP 5
SERVICE AND SALES WORKERS



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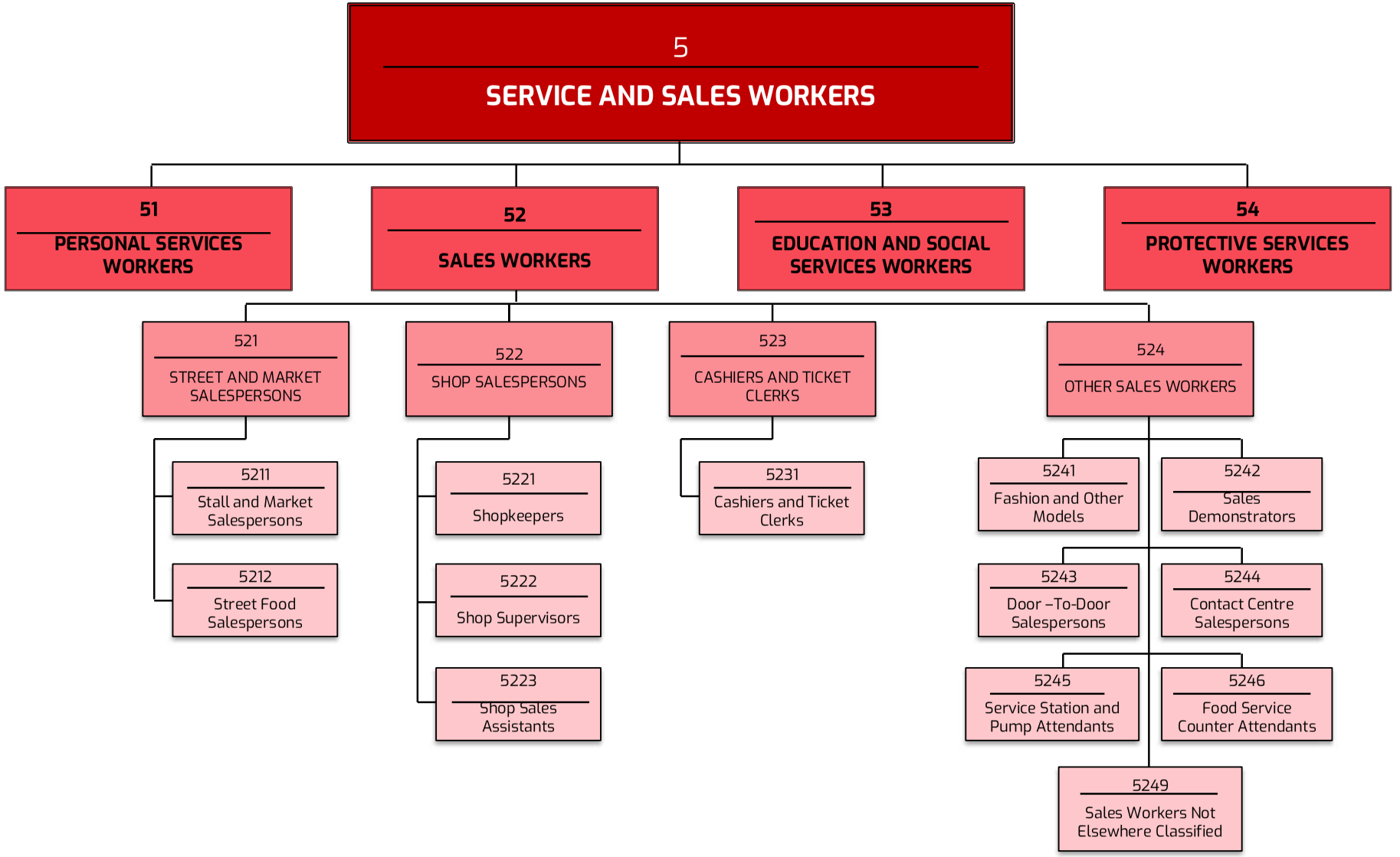
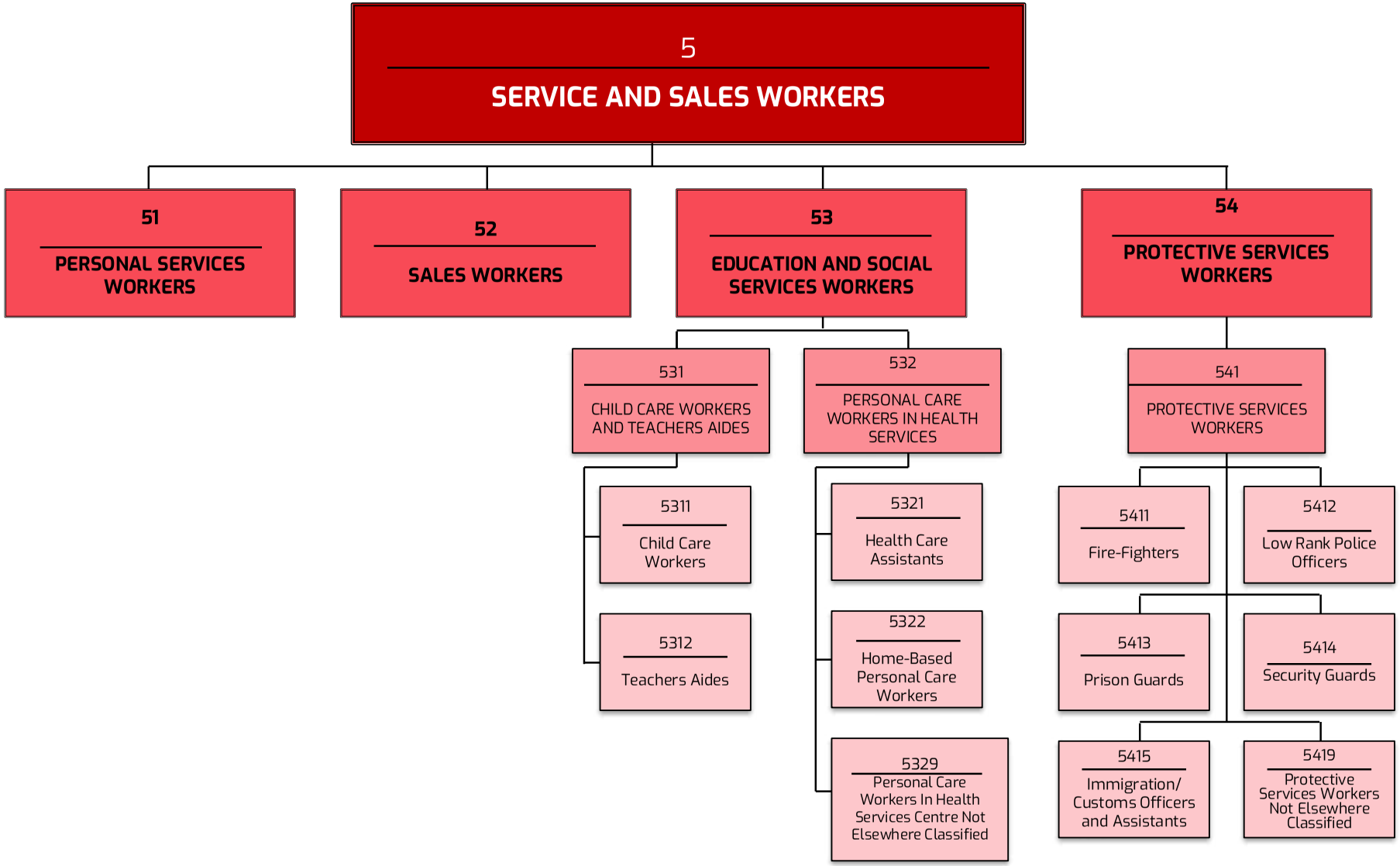
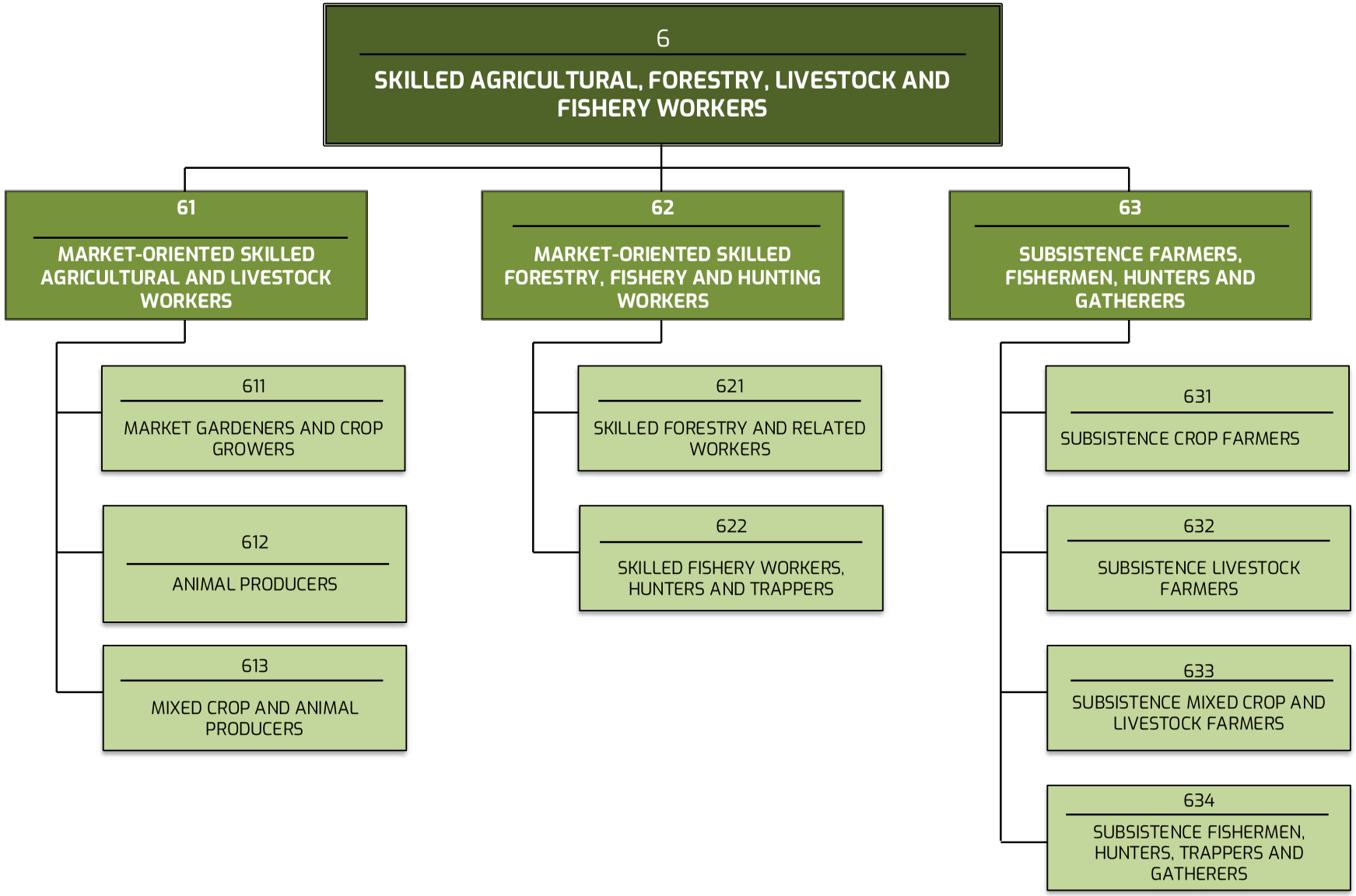
SERVICE AND SALES WORKERS



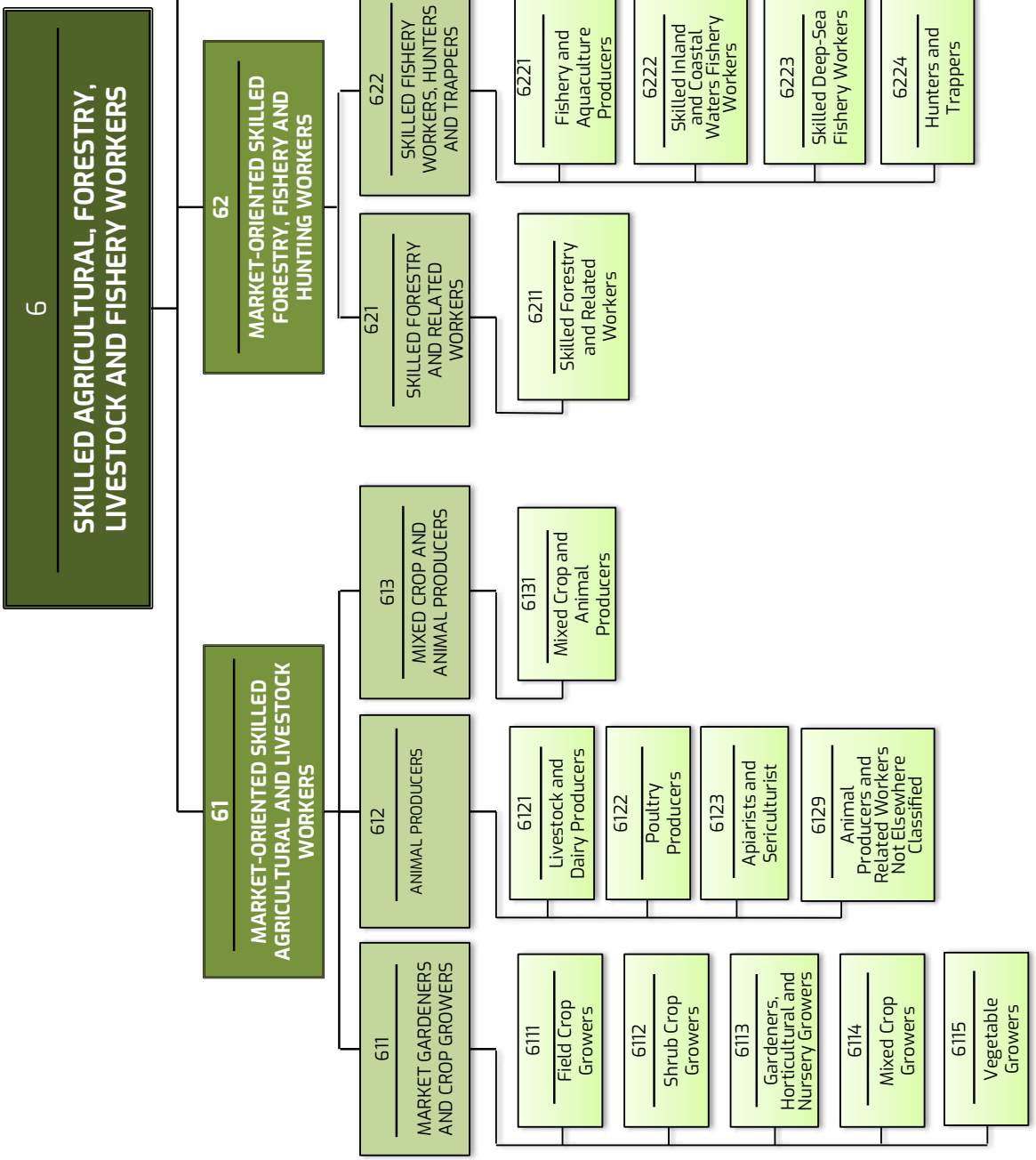
MAJOR GROUP 5
SERVICE AND SALES WORKERS



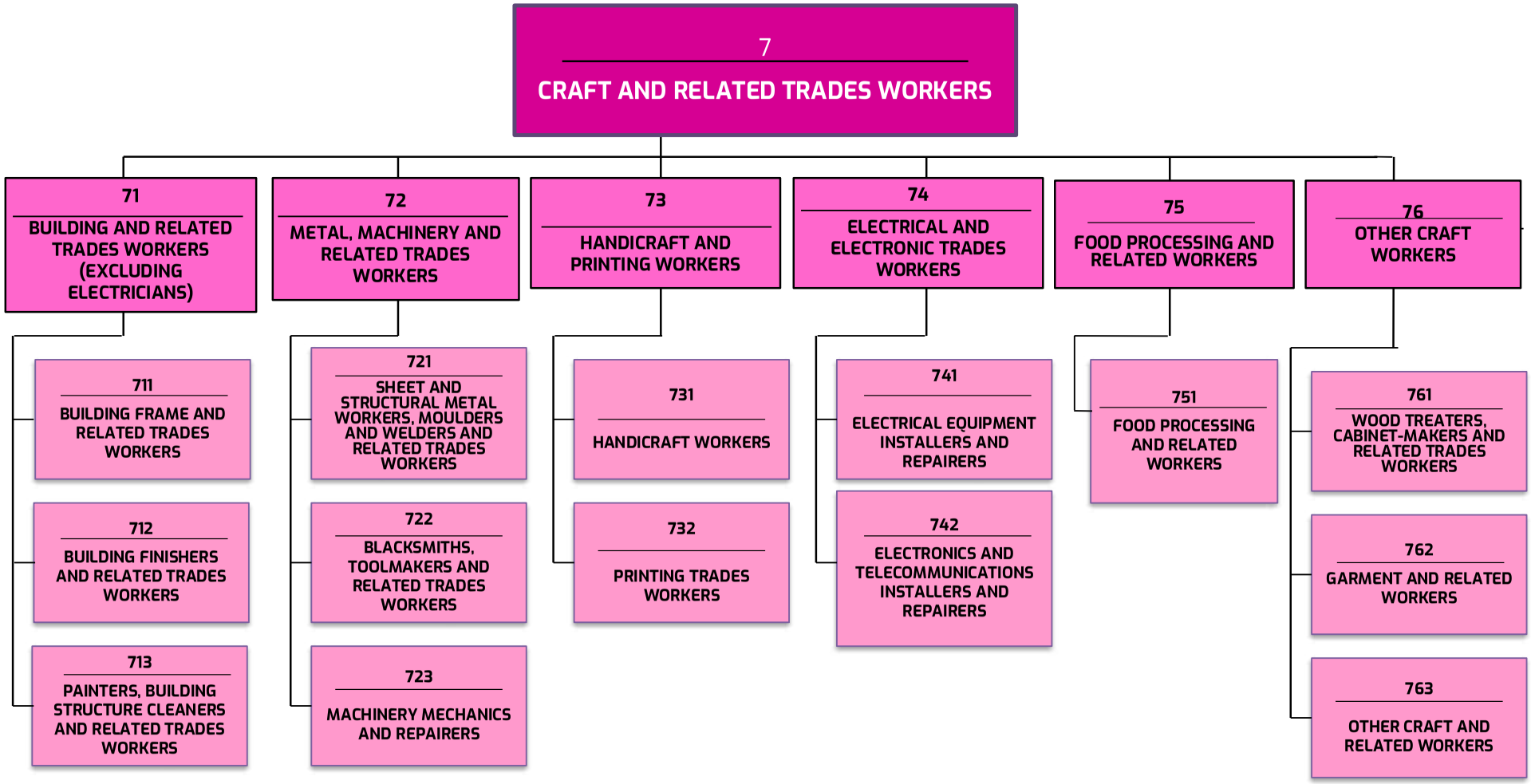
MAJOR GROUP 6
SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS



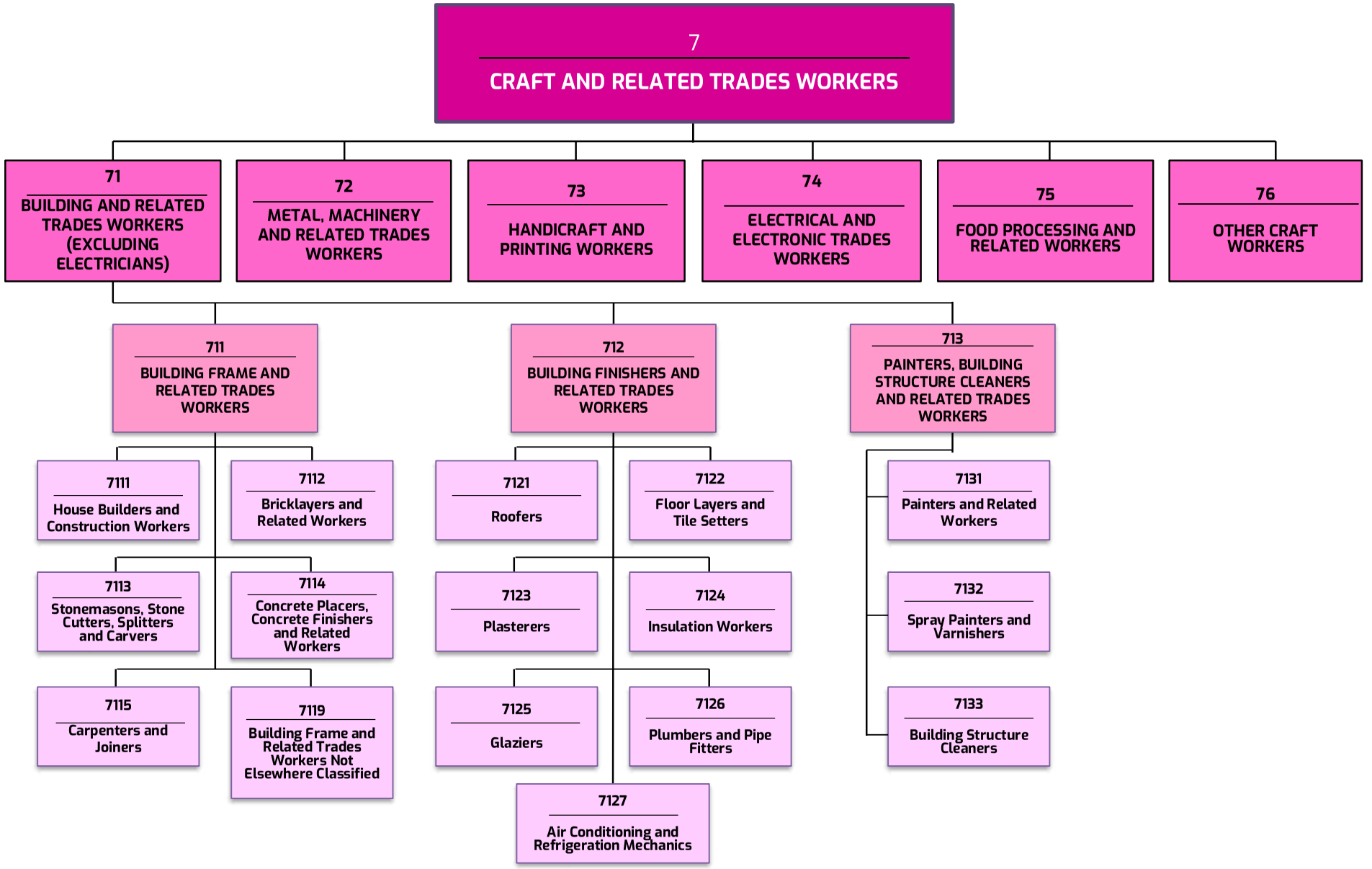
MAJOR GROUP 6
SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS



MAJOR GROUP 7
CRAFT AND RELATED TRADES WORKERS



MAJOR GROUP 7
CRAFT AND RELATED TRADES WORKERS



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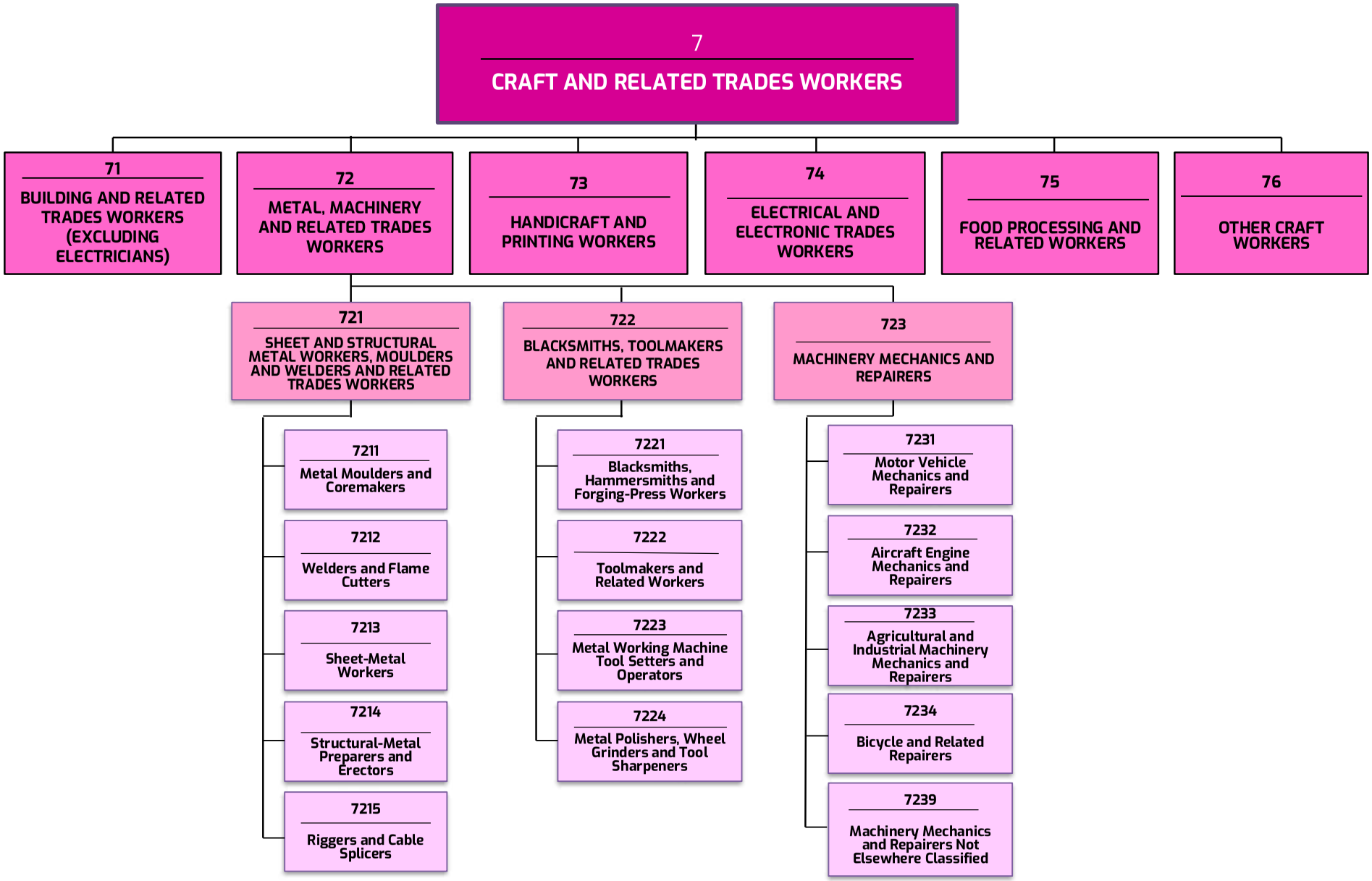
CRAFT AND RELATED TRADES WORKERS



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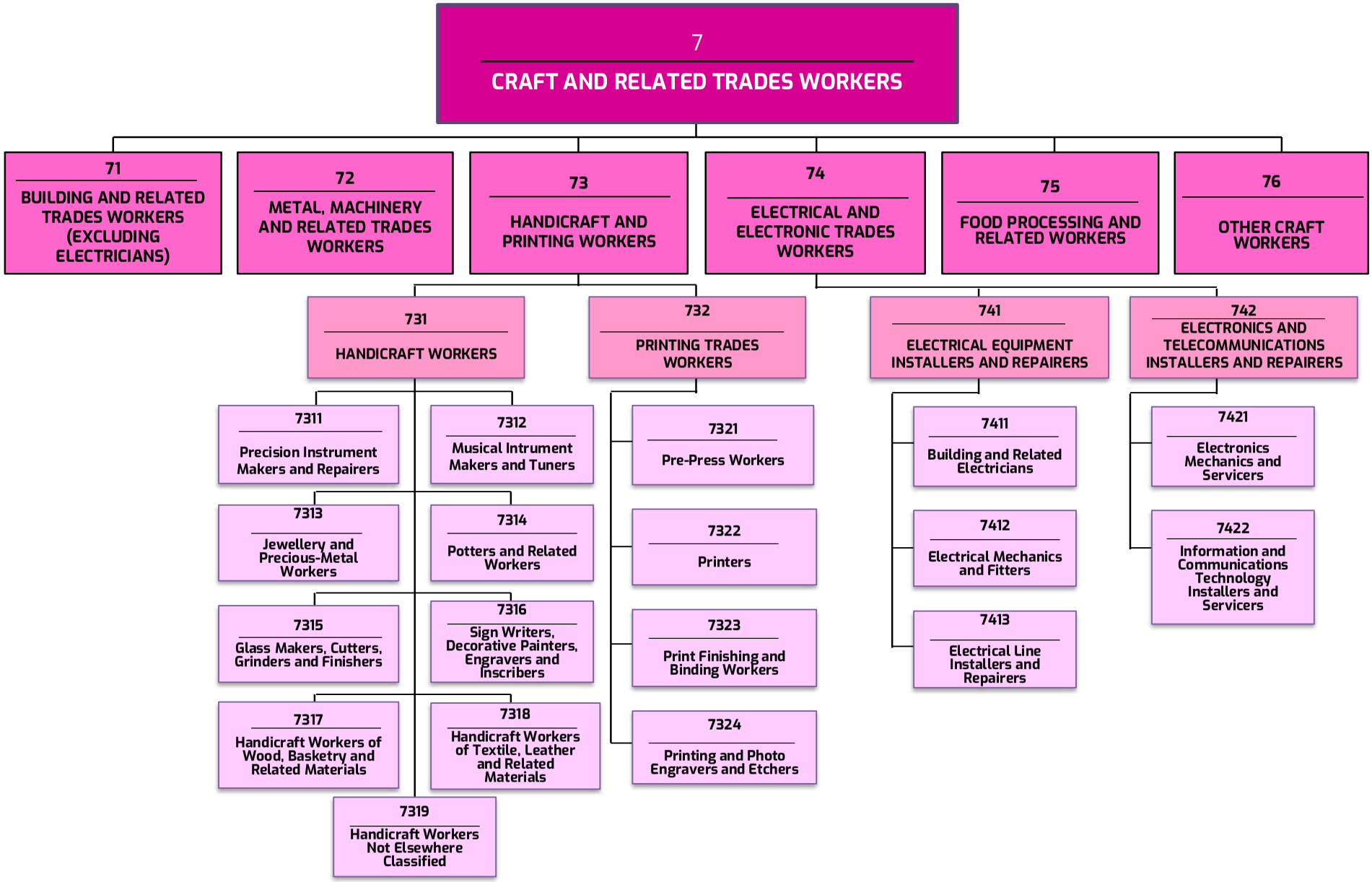
CRAFT AND RELATED TRADES WORKERS



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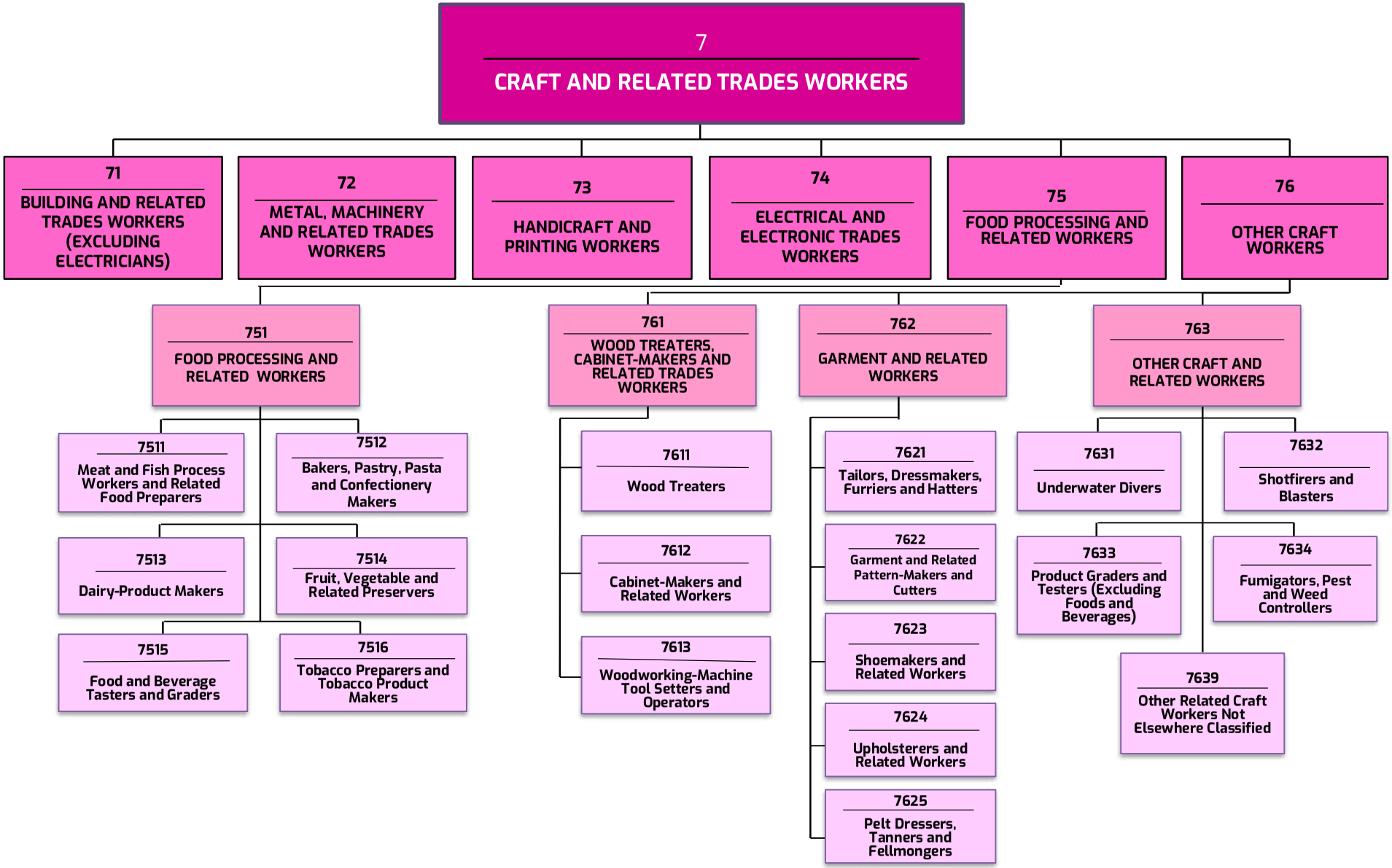
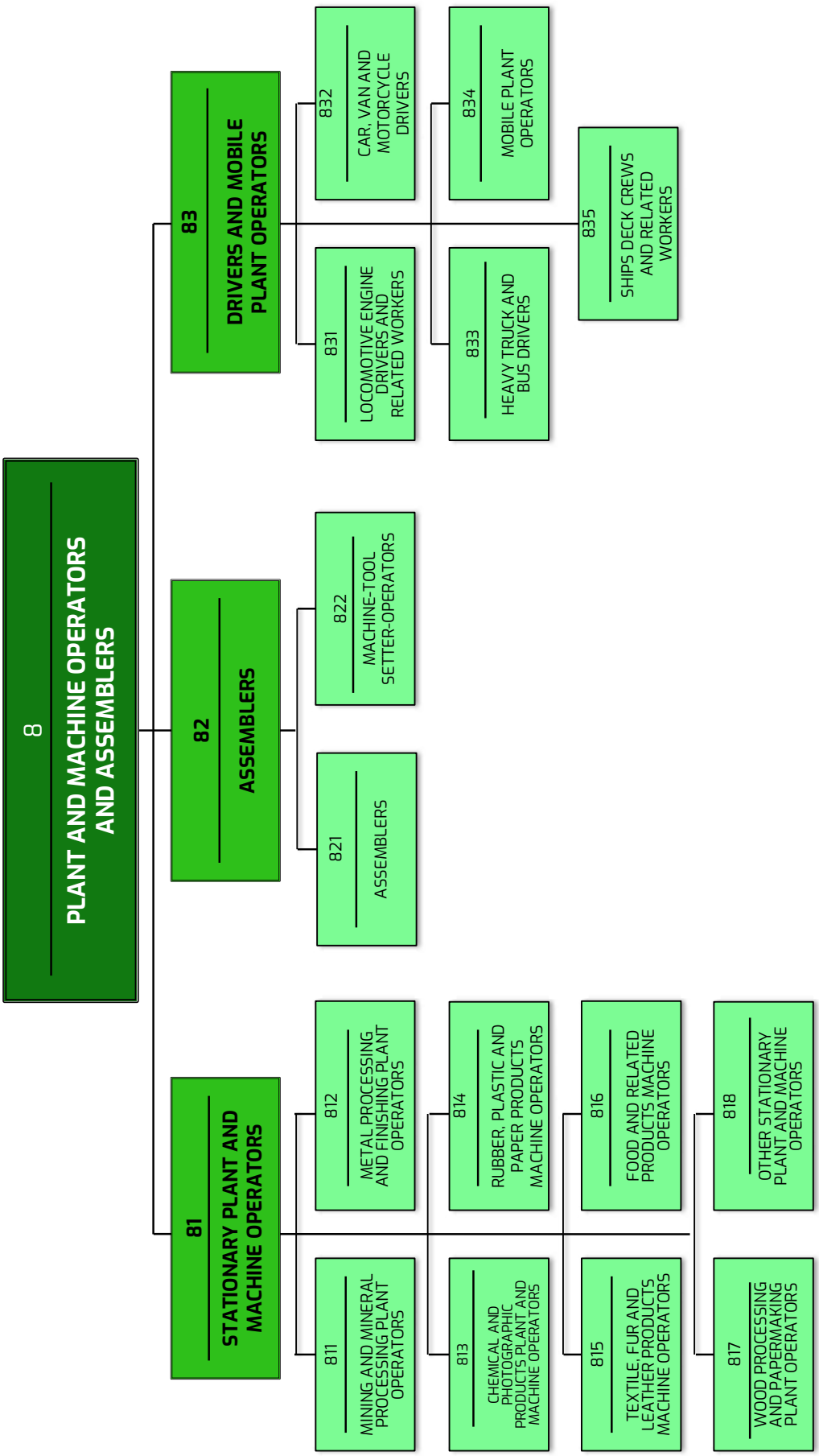
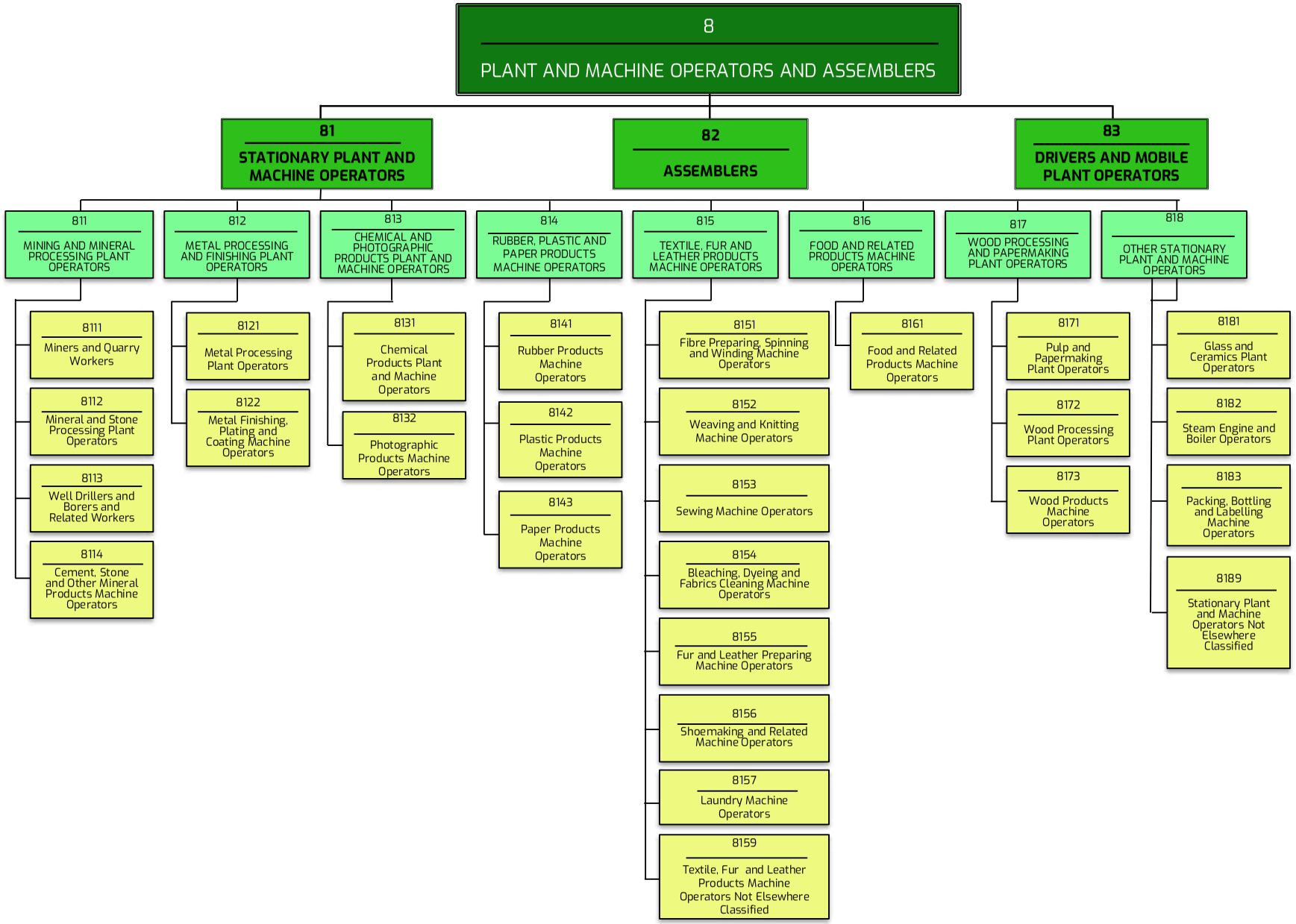
CRAFT AND RELATED TRADES WORKERS



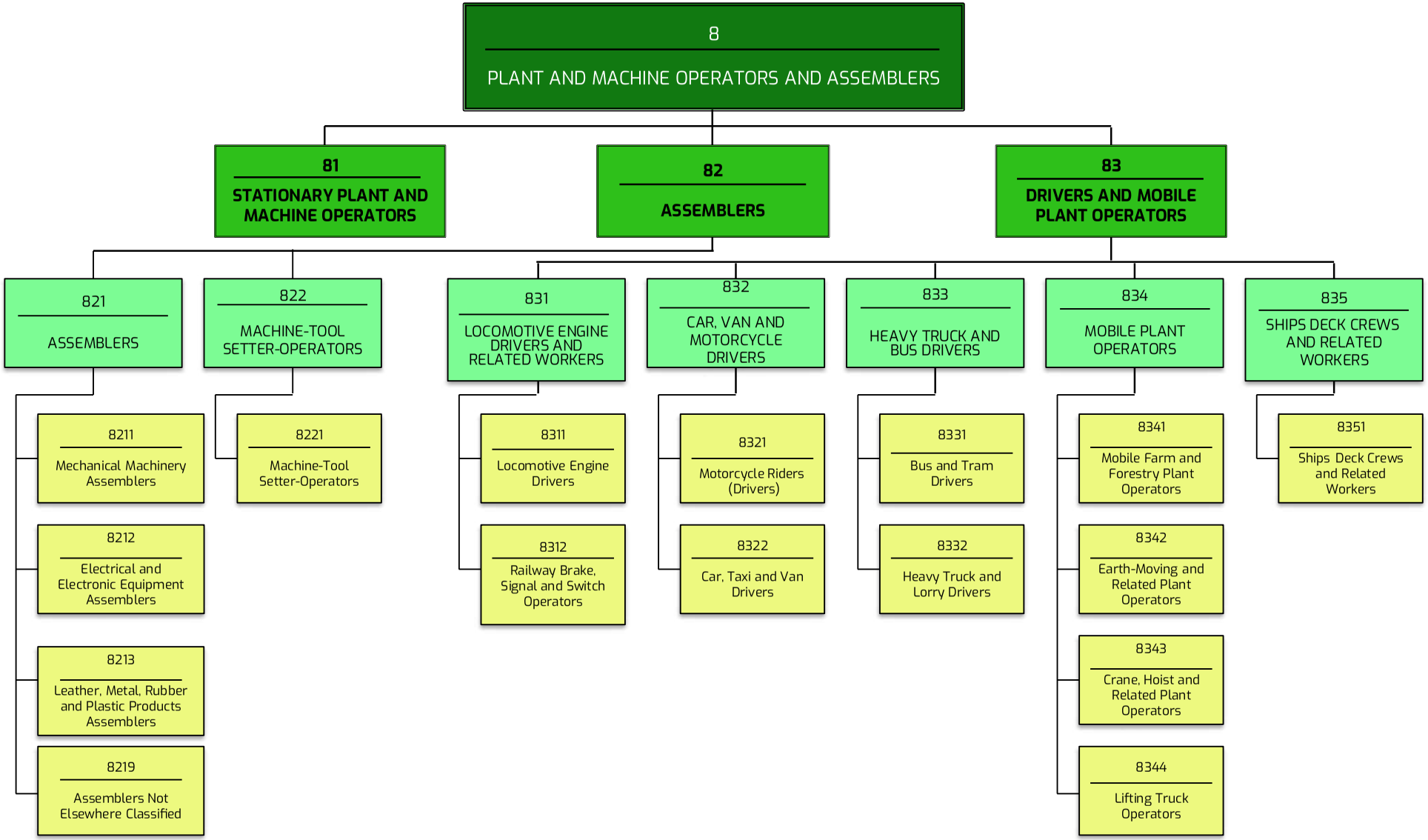
MAJOR GROUP 8
PLANT AND MACHINE OPERATORS AND ASSEMBLERS



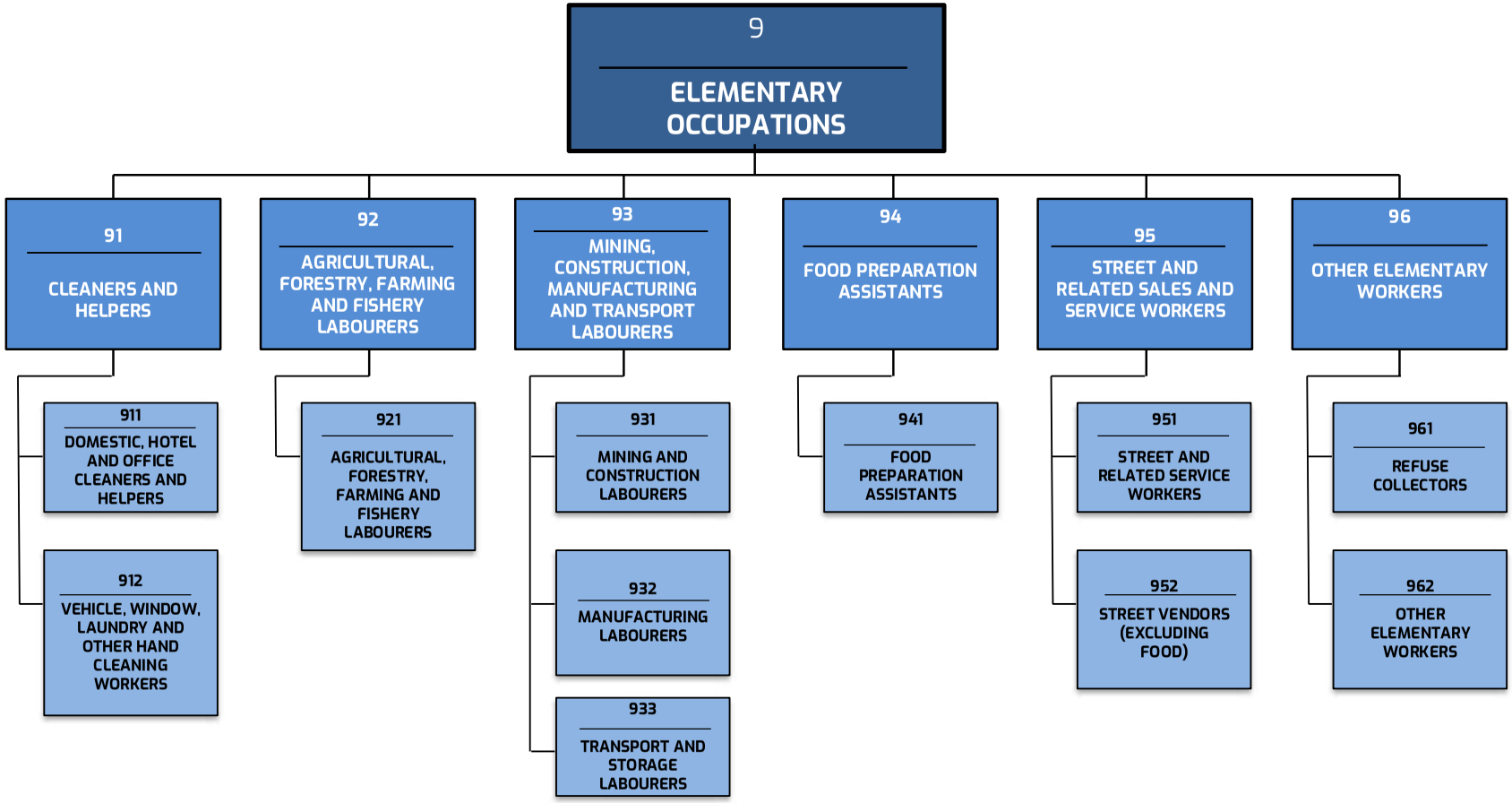
MAJOR GROUP 8
PLANT AND MACHINE OPERATORS AND ASSEMBLERS



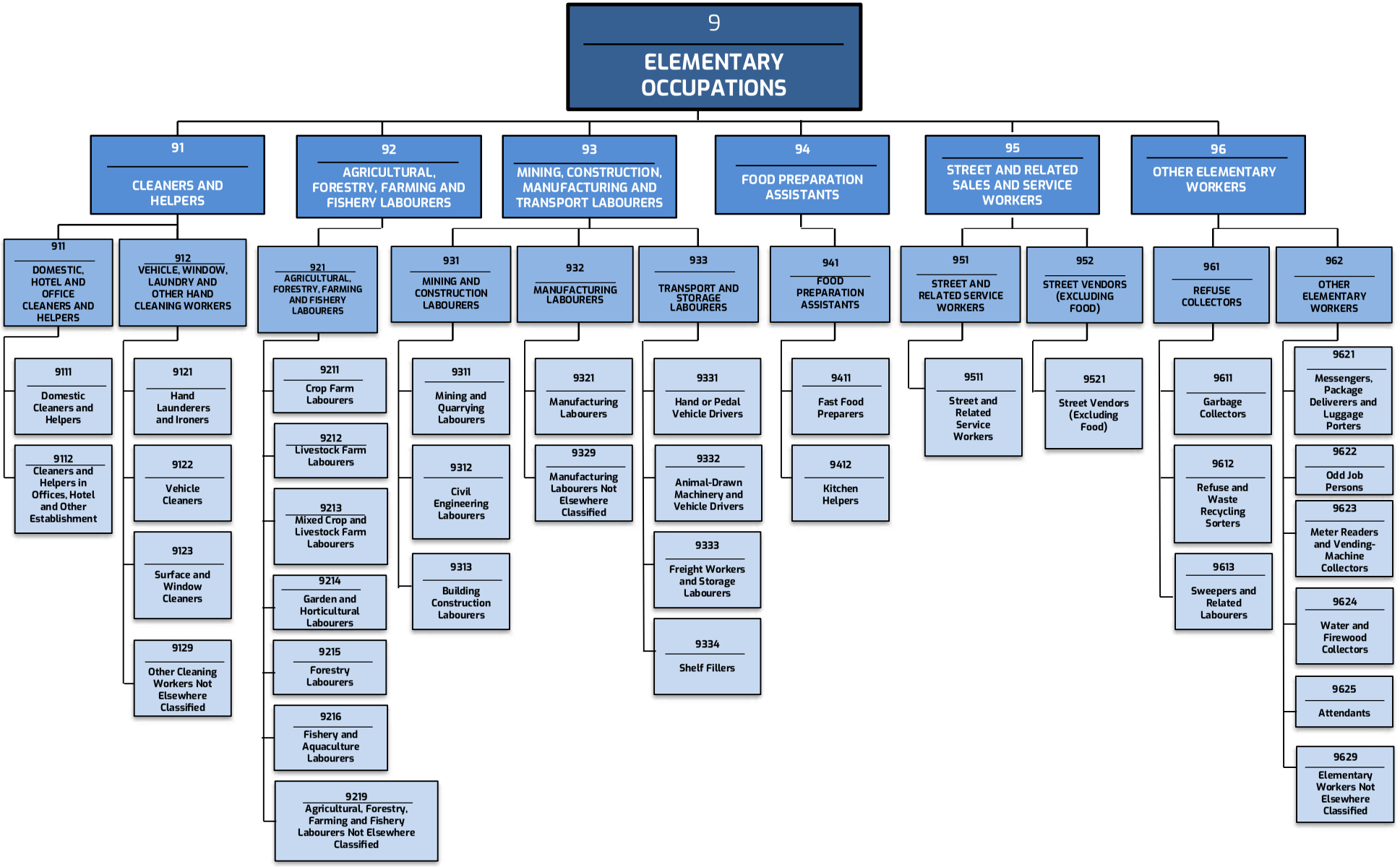
MAJOR GROUP 8
PLANT AND MACHINE OPERATORS AND ASSEMBLERS



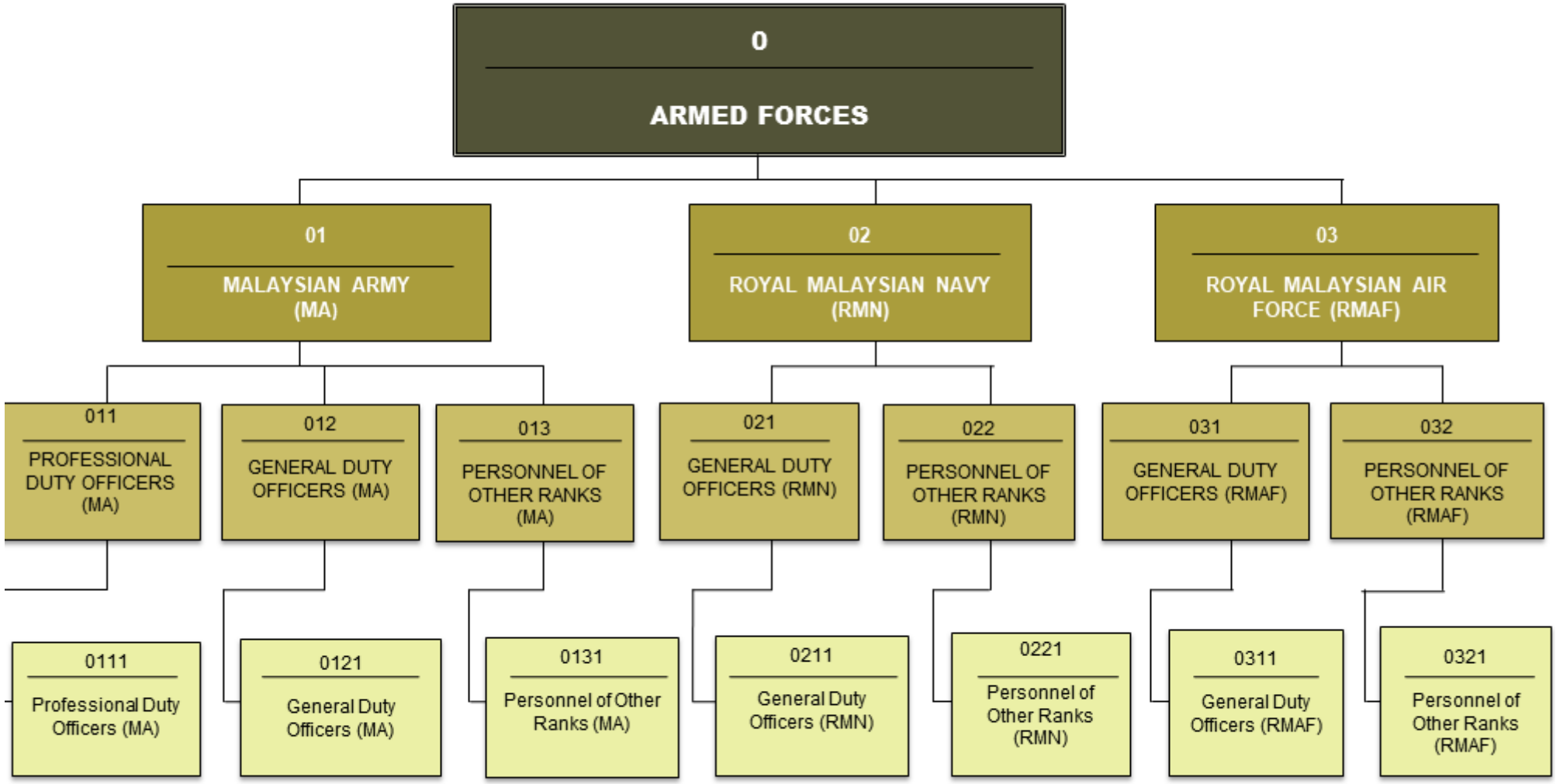
MAJOR GROUP 9
ELEMENTARY OCCUPATIONS



MAJOR GROUP 9
ELEMENTARY OCCUPATIONS



MAJOR GROUP 0
ARMED FORCES



REFERENCE

Australian and New Zealand Standard Classification of Occupations (ANZSCO) (2006). *Job Description*. Accessed from http://www.oesr.qld.gov.au/about-statistics/statistical-standard/national/ anzsco.php on 3 February 2013.

Human Resources Policy Division, Ministry of Human Resources. *Malaysia Standard Classification of Occupations, 2013*. Putrajaya: Human Resources Policy Division, Ministry of Human Resources.

Human Resources Policy Division, Ministry of Human Resources 2008. *Malaysia Standard Classification of Occupations*. Putrajaya: Human Resources Policy Division, Ministry of Human Resources.

Human Resources Policy Division, Ministry of Human Resources 2010. 100 Selected Jobs, 2010. Putrajaya: Human Resources Policy Division, Ministry of Human Resources.

Canada National of Occupations (NOC) (2010). *Job Description*. Accessed from http://www.hrsdc.gc.ca/eng/jobs/lmi/noc/index.shtml on 18 January 2013.

Farr, M. *(2006). 300 Best Jobs without a Four-Year Degree, Second Edition.* America: Career Publisher.

Farr, M. & Shatkin, L. (2005). *250 Best Jobs Through Apprenticeships.* America: Career Publisher.

Farr, M. & Shatkin, L. (2006). *200 Best Jobs for College Graduates Third Edition.* America: Career Publisher.

Farr, M. & Shatkin, L. (2006). *Best Jobs for the 21st Century Fourth Edition*. America: Career Publisher.

Farr, M. & Shatkin, L. (2006). *40 Best Fields for Your Career*. America: Career Publisher.

Farr, M. & Shatkin, L. (2007). *175 Best Jobs Not Behind a Desk*. America: Career Publisher.

Farr, M. & Shatkin, L. (2007). *225 Best Jobs for Baby Boomers*. America: Career Publisher.

Farr, M. & Shatkin, L. (2007). *O*NET, Dictionary of Occupational Titles, Fourth Edition*. America: Career Publisher.

Farr, M. & Shatkin, L. (2008). *150 Best Jobs for Your Skills*. America: Career Publisher.

Hawkins, J. M. *(2006). Kamus Dwibahasa Oxford Fajar*, 2006. Kuala Lumpur: Oxford Fajar Sdn. Bhd.

International Labour Organisation (1998). *International Standard Classification of Occupations (ISCO) 1988*. Geneva: International Labour Organisation.

International Labour Organisation (2008). *International Standard Classification of Occupations (ISCO) 2008*. Geneva: International Labour Organisation.

Department of Skill Development, Ministry of Human Resources (2019). *Kerangka Latihan dan Pembangunan Kemahiran Pekerjan Malaysia, 2019*. Putrajaya: Department of Skill Development, Ministry of Human Resources.

Department of Statistics Malaysia (2008). *Piawaian Klasifikasi Industri Malaysia, 2008.* Putrajaya: Department Statistics of Malaysia.

Public Service Department of Malaysia (2010). *Maklumat Skim Perkhidmatan Pada 1 Januari 2010*. Putrajaya: Public Service Department of Malaysia.

Public Service Department of Malaysia (2012). *Surat Pekeliling Perkhidmatan Bilangan 1 Tahun 2012, Perubahan Penetapan Gaji Permulaan Berikutan Pelaksanaan Jadual Gaji Minimum – Maksimum Menggantikan Jadual Gaji Matriks*. Putrajaya: Public Service Department of Malaysia.

Department of Labour, Ministry of Human Resources (1998). *Piawaian Pengelasan Pekerjaan Malaysia, 1998*. Putrajaya: Department of Labour, Ministry of Human Resources.

JobsMalaysia (2019). *Tajuk Pekerjaan*. Accessed from http://www.Jobsmalaysia.gov.my on 30 February 2019.

Monster.com (2019). *Sample Job Descriptions*. Accessed from *hiring.monster.com/.../job descriptions /sample-job-descriptions.aspx on 21 January 2019.*

Multimedia Development Corporation Sdn Bhd (MDEC) (2010). *MSC Malaysia Skills Competency Matrix, 2010*. Cyberjaya: Multimedia Development Corporation Sdn Bhd (MDEC).

Roberts, T. J. *(1991). Dictionary of Occupational Titles Volume II, Fourth Edition, Employment and Training Administration*, 1991. United States: Government Printing Office.

Shatkin, L. (2008). *150 Best Jobs for a Better World.* America: Career Publisher.

Standard Occupational Classifications (2010). *Job Description.* Accessed from http://www.ons.gov.uk/ons/guide- method/classifications/current-standardclassifications/soc2010/soc 2010 -volume-1 -structure-and- descriptions- of-unit groups/ index.html on 2 January 2019.

Wikipedia, the Free Encyclopedia (2019). *Job Description*. Accessed from en.wikipedia.org/ wiki /Job_ description on 16 January 2019.