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# **ASCO – Australian Standard Classification of Occupations**

## **Information Paper**

*Statistics*

ABS Catalogue No. 1221.0

## NOTES

### RELATED PUBLICATIONS

Users may wish to refer to the following publications which relate to the Australian Standard Classification of Occupations (ASCO) Second Edition and which will be progressively available for sale from the end of the first quarter of 1997:

*Australian Standard Classification of Occupations (ASCO) Second Edition* (1220.0)

*ASCO Manual Coding System: Occupation Level* (1227.0)

Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

### INQUIRIES

For further information about the contents of this publication, contact Wendy Piper on Canberra (06) 252 5757 or any Australian Bureau of Statistics (ABS) State office.

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# CONTENTS

	Page
AUSTRALIAN STANDARD CLASSIFICATION OF OCCUPATIONS SECOND EDITION	
Introduction	5
The development and uses of ASCO First Edition	5
Review of ASCO First Edition	5
Conceptual basis and structure of ASCO	6
The classification structure of ASCO Second Edition	7
Concordance	7
Major structural differences between ASCO First Edition and Second Edition	8
Statistical balance and feasibility	9
Implementation of ASCO Second Edition in ABS collections	10
Implementation of ASCO Second Edition within the Department of Employment, Education, Training and Youth Affairs	11
Interpreting ASCO occupation definitions	11
A structured coding system	11
International comparability	12
New Zealand Standard Classification of Occupations	13
ASCO products	13
ASCO services	15
APPENDIXES	
1 Profile of the ASCO Second Edition structure	16
2 ASCO Second Edition skill levels	17
3 ASCO Second Edition major and sub-major groups	18
4 ASCO Second Edition major, sub-major, minor, unit groups and occupations	19



# AUSTRALIAN STANDARD CLASSIFICATION OF OCCUPATIONS SECOND EDITION

## INTRODUCTION

This publication provides an introduction to the Second Edition of the Australian Standard Classification of Occupations (ASCO). It broadly describes the conceptual basis of ASCO and provides an overview of the ASCO Second Edition classification structure and its coding system. The relationship of ASCO Second Edition to the First Edition is discussed and it is also compared to the International Standard Classification of Occupations (ISCO-88) and the 1990 New Zealand Standard Classification of Occupations. Plans for implementing the Second Edition in ABS statistical collections are outlined as are the further ASCO publications and electronic products that will be provided.

## THE DEVELOPMENT AND USES OF ASCO FIRST EDITION

The development of ASCO First Edition as the Australian standard for classifying occupations was undertaken jointly by the Australian Bureau of Statistics (ABS) and the (then) Department of Employment and Industrial Relations. The project began in 1978 and ASCO First Edition was introduced progressively into ABS collections from May 1986, replacing the previously used Classification and Classified List of Occupations.

ASCO First Edition was used in all ABS censuses and surveys where occupation data were collected, including the 1986 and 1991 Censuses of Population and Housing, the Labour Force Survey and the Survey of Employee Earnings and Hours.

In 1990 ASCO First Edition was introduced into ABS administrative by-product collections such as births, deaths, marriages and divorces. ASCO First Edition is also used to code occupation responses on visa applications and passenger cards to produce occupation statistics on overseas arrivals and departures.

Major government agencies such as the Commonwealth Employment Service, the Department of Immigration and Multicultural Affairs (DIMA) and Comcare incorporate ASCO in their reporting systems. ASCO is the specified standard for the reporting of workplace accidents under the revised *Regulations of the Occupational Health and Safety (Commonwealth Employment) Act 1991*. Other organisations in both the public and private sectors use ASCO to sort and organise occupation-related information for such purposes as policy development and review, human resource management, and labour market and social research.

## REVIEW OF ASCO FIRST EDITION

Widespread industry and award restructuring, technological change and competency-based approaches to career entry and progression have brought about significant occupational changes in the Australian labour market in the ten years since ASCO First Edition was developed.

In order to maintain the relevance of ASCO as the national occupation standard, and to ensure that ABS statistics are relevant and responsive

to the current and evolving needs of its clients, the ABS and the (now) Department of Employment, Education, Training and Youth Affairs (DEETYA) commenced a review of the classification in 1992. This review has encompassed both the structural and the definitional content of the classification and has been completed in time for the Second Edition of ASCO to be introduced into various ABS collections from May 1996 onwards.

In undertaking the review, the ABS and DEETYA consulted widely with key users of ASCO, industry training bodies, unions, employer bodies and professional associations and are indebted to them for their valuable input into the review process.

## CONCEPTUAL BASIS AND STRUCTURE OF ASCO

ASCO is a skill-based classification of occupations which covers all jobs in the Australian work force. The concepts of 'job' and 'occupation' are fundamental to an understanding of the classification. For the purposes of ASCO, a job is defined as the set of tasks designed to be performed by one individual while an occupation is a set of jobs with similar sets of tasks. Within ASCO, occupations are classified according to two criteria — *skill level* and *skill specialisation*.

**Skill level** In ASCO, this is defined as the range and complexity of the set of tasks involved: the greater the range and complexity of the set of tasks, the greater the skill level of the occupation.

In ASCO First Edition, skill level was measured operationally as the amount of formal education, on-the-job training and previous experience usually necessary for the satisfactory performance of the set of tasks.

The concept of skill level remains unchanged in ASCO Second Edition. However, the operational definition of skill level has been refined as a result of competency-based initiatives in employment and training and an increased emphasis on entry requirements to an occupation. This emphasis on entry requirements arises largely from the difficulty in objectively measuring the skill level required for the satisfactory performance of tasks.

The criteria used in ASCO Second Edition to measure skill level are the formal education and/or training and previous experience usually required for entry to the occupation. In instances where information relating to these entry requirements was not available, relevant minimum endorsed competency standards were also considered in measuring the skill level of an occupation.

Where these criteria were not sufficient or appropriate for determining the skill level of a particular occupation, the range and complexity of the set of tasks involved was determined by application of the following criteria (for which on-the-job training may be a useful measure):

- breadth/depth of knowledge required
- range of skills required

- variability of operating environment
- level of autonomy as determined by the degree of discretion and choice which may be required to perform the set of tasks.

**Skill specialisation** The skill specialisation of an occupation is a function of the field of knowledge required, tools and equipment used, materials worked on, and goods or services produced in relation to the tasks performed. In ASCO Second Edition the definition of skill specialisation remains unchanged but includes reference to non-production based operations. For example tools and equipment can also include all forms of computer-based equipment, personal interaction and art or design techniques. Materials worked on can also include data and individual or group service. Goods and services produced has been renamed goods or services provided and includes, for example, data and personal service.

## THE CLASSIFICATION STRUCTURE OF ASCO SECOND EDITION

The structure of ASCO Second Edition comprises five hierarchical levels: Major Group, Sub-Major Group, Minor Group, Unit Group and Occupation. A profile of the ASCO Second Edition structure and a listing of the Major, Sub-Major, Minor, Unit Groups and Occupations are shown in Appendixes 1, 3 and 4.

This represents a change from ASCO First Edition, where the structure consisted of four levels: Major Group, Minor Group, Unit Group and Occupation. The Sub-Major Group level has been added to the structure to enhance users' options for statistical output. The table below indicates the number of groups in each edition:

	<i>First Edition</i>	<i>Second Edition</i>
Major Group	8	9
Sub-Major Group	n.a.	35
Minor Group	52	81
Unit Group	282	340
Occupation	1 079	986

In recognition of the need to maintain comparability and consistency between ASCO First Edition and ASCO Second Edition, changes at the unit group (four-digit) level have been made only where this was unavoidable. Although there are instances where unit group codes and titles have been altered, a large proportion of First and Second Edition unit groups can be linked to facilitate time series analysis.

In terms of comparability between ASCO First Edition and Second Edition, approximately two-thirds of the old and new unit groups are directly comparable while occupations in the remaining First Edition unit groups have been distributed into a number of new unit groups in Second Edition.

## CONCORDANCE

A detailed concordance between occupations in the two editions will be included in the *Australian Standard Classification of Occupations (ASCO) Second Edition (1220.0)* which will be released in March 1997. The concordance will show where a one to one relationship exists between occupations in the First and Second

Editions, and when it does not. This concordance is based on occupation data from the 1991 Census of Population and Housing.

Following completion of data processing of the 1996 Census, an updated concordance will be produced that shows actual proportional relationships between the categories of the First and Second editions.

#### MAJOR STRUCTURAL DIFFERENCES BETWEEN ASCO FIRST EDITION AND SECOND EDITION

ASCO First Edition had eight major groups representing eight skill levels. A more rigorous approach to the application of the skill level criteria has resulted in changes to the way some occupations are classified in ASCO Second Edition. In the Second Edition the skill level of major groups is clarified by arranging nine major groups into one of five skill levels. This addresses criticism of First Edition ASCO which has eight skill levels corresponding with the eight major groups. Major groups at the same skill level are differentiated according to a broad application of the skill specialisation concept.

As mentioned previously, ASCO Second Edition includes an additional level in the classification hierarchy. There are now five hierarchical levels — Major Group, Sub-Major Group, Minor Group, Unit Group and Occupation. It was considered that the addition of the sub-major group level will enhance users' options for statistical output particularly where sample sizes preclude output at the minor group level.

An important change has been the reorganisation of First Edition Major Group 5 Clerks and Major Group 6 Sales and Personal Service Workers into three major groups at different skill levels to better reflect the skill level of the occupations they cover. Instead of two major groups for clerical and sales and service occupations, there are now three — Advanced, Intermediate and Elementary.

In some areas of the classification additional unit groups have been created to provide more detailed information at the unit group level.

Specific examples of some other important changes to the classification are outlined below.

#### Managing supervisors

Managers of small organisations and businesses which do not necessarily have a hierarchy of managers, are now classified in Major Group 3 Associate Professionals (Skill Level 2), in contrast to First Edition where they were classified in Major Group 1 (at Skill Level 1) along with general and specialist manager occupations.

#### Air and sea transport technical workers

ASCO First Edition Minor Group 33 Air and Sea Transport Technical Workers has been moved to Major Group 2 Professionals.

#### Registered nurses

The First Edition Minor Group 34 Registered Nurses has been moved to Major Group 2 Professionals.



- |                 |  |
|-----------------|--|
| Enrolled nurses | The First Edition Unit Group 6603 Enrolled Nurses has been moved to Major Group 3 Associate Professionals and is now Minor Group 341 Enrolled Nurses.  |
| Welfare workers | Welfare Workers have been moved from Unit group 3901 Welfare Para-professionals in ASCO First Edition to ASCO Second Edition Unit Group 2512 Welfare and Community Workers.  |
| Other changes   | Other changes reflected in the ASCO Second Edition structure are the result of the emergence and decline of occupations in the Australian labour market. The increased significance of various industry sectors to the economy, in particular the service and information technology sectors, has lead to the emergence of a number of new occupations. Conversely, technological and structural changes in the Australian work force have also resulted in the decline of some occupations. |

Similarly, a trend toward the upgrading of skills and training required for many occupations in the Australian work force has resulted in the reclassification of certain occupations to more appropriate skill levels in the ASCO Second Edition structure.

#### STATISTICAL BALANCE AND FEASIBILITY

As a general principle a classification should be statistically balanced. Similar numbers of 'real-world' entities should be classified to each category at a particular level. However categories which have been defined to reflect the real world will not always be statistically balanced. To force categories to conform to size limitations would mean that the categories would not always be meaningful or useful. On the other hand the number of entities in each category should be sufficiently large to ensure that confidentiality of the data is not compromised.

A number of First Edition occupations have been split into separate Second Edition occupations to facilitate greater disaggregation of data. For example, the First Edition occupation Accountant has been split into three separate occupations in ASCO Second Edition: Accountant, External Auditor and Internal Auditor.

The issue of statistical feasibility has had a significant impact on the classification of supervisory occupations. While it is clear that a higher level of skill and training is required for entry to some supervisory occupations, it has been necessary to classify many supervisory occupations together with the occupations they supervise because it is not practicable to make the necessary distinction in statistical collections. However, where there is a marked difference in the tasks performed, a separate supervisory occupation has been specified.

Similar considerations have impacted on the classification of apprentice and trainee occupations. It is acknowledged that the skill level for entry into occupations as an apprentice or trainee is lower than the skill level requirements of the occupation. However statistical and operational considerations have meant that apprentices and trainees are generally located in the same unit group as the occupations they are training toward, the exceptions being Office

Trainees and Sales and Service Trainees which are unit groups of their own. In addition, although in ASCO First Edition each tradesperson unit group contained only one apprentice occupation relating to that unit group, most tradesperson unit groups in ASCO Second Edition include an apprentice occupation corresponding to each tradesperson occupation in that unit group.

## IMPLEMENTATION OF ASCO SECOND EDITION IN ABS COLLECTIONS

There will be a phased introduction of ASCO Second Edition into ABS collections. The following is a guide to its implementation.

### 1996 Census of Population and Housing

All occupation information reported in the 1996 Census will be coded to ASCO Second Edition. As in previous years standard output data on occupations will be published at the unit group level. An electronic file linking First and Second Editions of ASCO at the occupation level will be available in late 1997 after processing of the 1996 Census has been completed.

### Labour Force Survey

Occupation information reported in the August 1996 Labour Force Survey will be coded to ASCO Second Edition. An information paper outlining the changes to labour force data following the introduction of ASCO Second Edition will be released later in 1996. A preliminary concordance between the two editions of ASCO will also be included in this paper. Further details of this paper can be obtained by contacting Sylvia Sajler on (06) 252 6565.

### Survey of Employee Earnings and Hours

All occupation data reported in the May 1996 Survey of Employee Earnings and Hours will be coded to ASCO First and Second Editions. Data in the publications *Distribution and Composition of Employee Earnings and Hours, Australia, Preliminary* (6305.0) and *Distribution and Composition of Employee Earnings and Hours, Australia* (6306.0) will reflect ASCO Second Edition major, minor and unit groups. A limited amount of data will be published according to ASCO First Edition. Further information regarding times series for this collection can be obtained by contacting Rory Carle on (09) 360 5286.

### Labour Cost Index Survey

Occupation information to be collected in this survey now under development will be coded to ASCO Second Edition and along with other information will be used to complete the ordinary time earnings component of the quarterly Labour Cost Index. The Labour Cost Index will provide a measure of the change in the cost to organisations of employing labour, and will be used in formulating industrial relations and wages policies, economic analysis and contract adjustment. Further details of this survey can be obtained by contacting Dan Aherne on (06) 252 7418.

### Survey of Employment and Unemployment Patterns

Occupation data collected in the 1996 second wave of this longitudinal survey will be coded to ASCO Second Edition. Data from

the 1995 first wave was originally coded to ASCO First Edition and will be recoded. Further information about this survey can be obtained by contacting Mel Butler on (06) 252 5936.

#### Overseas arrivals and departures

The Department of Immigration and Multicultural Affairs (DIMA) currently codes occupation data for long-term and permanent arrivals to ASCO First Edition. These data appear in ABS and DIMA publications at minor group level. The timing of the introduction of ASCO Second Edition into this collection has yet to be determined.

#### Births and deaths

Occupation data reported in relation to births and deaths are coded to ASCO. In the births and deaths collections, the introduction of ASCO Second Edition is planned to take place at the conclusion of the 1996 processing, that is, for data from 1 January 1997. Further information about these collections can be obtained by contacting John Alexander on (07) 3222 6047.

#### IMPLEMENTATION OF ASCO SECOND EDITION WITHIN DEETYA

The Department of Employment, Education, Training and Youth Affairs (DEETYA) is committed to introducing ASCO Second Edition as soon as it is technically feasible in its information systems. This could be as early as the first half of 1997. The Department's major careers advice publication, *Job Guide*, will also be based on ASCO Second Edition as from 1997.

#### INTERPRETING ASCO OCCUPATION DEFINITIONS

ASCO is primarily a statistical classification designed to aggregate and organise data collected about jobs or individuals. The classification definitions are based on the skill level and specialisation *usually* necessary to perform the tasks of the specific occupation, or of most occupations in the group. The definitions and skill level statements apply to the occupation and not the incumbent. The allocation of a particular occupation to a particular skill level should be seen as indicative and not be used prescriptively.

#### A STRUCTURED CODING SYSTEM

Assigning ASCO codes to occupation or job descriptions requires the use of a rule-based system to ensure that it is performed in an accurate, consistent and efficient manner.

To consistently and reliably allocate responses from statistical collections to any level of the ASCO structure, data on occupation tasks as well as the occupation title are needed. The coding system is designed to utilise, in a structured way, the responses from up to four distinct questions: occupation title, main tasks performed, industry of employer and employer's name. Primary importance is given to the occupation title, but extensive use is made of main tasks performed in the job. Restricted use can also be made of information given in response to questions on industry and employer's name when it is collected.

The structured coding system may be implemented as a clerical procedure or through computer-assisted coding. There is no functional difference between the two forms of coding; that is, they

are based on the same coding methodology and procedures, and are designed to yield the same results.

The review of ASCO has been accompanied by the development of a Windows-based structured coding system for PCs, which enables occupation responses to be coded to either the unit group or occupation level of the classification with a high degree of accuracy and consistency. This Windows-based coding system will replace the ASCO Expert system (a DOS-based system) which was developed for coding to ASCO First Edition.

The new system is being implemented in the ABS for coding occupation data from the 1996 Census of Population and Housing and from some other ABS statistical collections. More information on the new coding system and its intended release is provided in the ASCO Second Edition products listed below.

#### INTERNATIONAL COMPARABILITY

The International Standard Classification of Occupations (ISCO) was developed by the International Labour Office in Geneva. ISCO was first issued in 1958 and revised versions were produced in 1968 and 1988. The main aims of ISCO are to provide a basis for international comparisons of occupation statistics between member countries and to provide a conceptual model for the developments of national occupation classifications. The most recent edition, ISCO-88, was developed using a similar conceptual basis to that of ASCO First Edition.

At the time of its release in 1986, ASCO First Edition was significantly different from most other occupation classifications used by national and international statistical agencies. The major change from international practice prior to that time lay in the use of skill level and skill specialisation as criteria to structure the occupation classification. ISCO-88 also uses these criteria in the conceptual framework for the classification. Four broad skill levels are used, defined in terms of the educational categories and levels which appear in the International Standard Classification of Education, published by the United Nations Educational, Scientific and Cultural Organisation.

ISCO-88 consists of 10 major groups, 28 sub-major groups, 116 minor groups and 390 unit groups. The occupation level is not defined in ISCO-88, as it is expected that individual countries will develop this level of detail to suit national requirements.

The ten major groups in ISCO-88 remain broadly similar to the nine ASCO Second Edition major groups. The most significant difference at major group level is that ISCO-88 has identified skilled Agricultural and Fishery Workers as a separate major group (Major Group 6), whereas ASCO Second Edition includes Farmers and Farm Managers as a sub-major group in Major Group 1 Managers and Administrators, and skilled Agricultural and Horticultural Workers as a sub-major group in Major Group 4 Tradespersons and Related Workers.

ISCO-88 also includes a separate Major Group 0, for the Armed Forces. In ASCO Second Edition, jobs held by members of the Armed Forces are classified together with their civilian equivalents where these exist and to a number of other specific occupations.

In common with ISCO-88, ASCO Second Edition now incorporates the sub-major group as a level of aggregation between the major and minor groups.

#### NEW ZEALAND STANDARD CLASSIFICATION OF OCCUPATIONS

In 1990, Statistics New Zealand released the New Zealand Standard Classification of Occupations (NZSCO). This is also a skill-based classification which uses skill level and skill specialisation as the primary criteria for classifying occupations. The major difference between NZSCO and ASCO Second Edition is its use of 10 major groups in the classification and, similar to ISCO-88, NZSCO has a separate major group for Armed Forces.

Early in the development phase of ASCO Second Edition, consideration was given to developing a joint Australian and New Zealand classification. However, a number of practical considerations precluded this development, chiefly the timing of the ASCO Review in relation to NZSCO and the need to have ASCO Second Edition ready for use in the 1996 Census.

#### ASCO PRODUCTS

ASCO First Edition publications and products will remain available for a short time following the release of ASCO Second Edition.

##### ASCO Second Edition products

The following ABS publications and products will be available progressively from the end of the first quarter of 1997.

##### *Australian Standard Classification of Occupations (ASCO) Second Edition (1220.0)*

This publication is intended for users who wish to understand the detailed structure and content of the classification as an aid in interpreting ABS statistics. It is also a necessary resource document for use in resolving coding queries when processing occupation data.

The conceptual basis of ASCO will be examined together with a description of the ASCO structure and an outline of the history of the development of the classification.

The main part of the publication will show the hierarchical structure of the classification down to the finest level of detail, the occupation level. It will also comprise a summary of the ASCO classification criteria and coding conventions. Definitions for the 9 major groups, 35 sub-major groups, 81 minor groups, 340 unit groups and 986 occupations in the classification will be included. As mentioned previously, a concordance between First and Second Edition will be included as an appendix.

This publication will combine and supersede the contents of the First Edition publications, *ASCO Statistical Classifications* (1986) (1222.0) and *ASCO Occupation Definitions* (1990) (1223.0). However, as previously mentioned, both these First Edition publications will remain available for a brief time following the release of ASCO Second Edition.

This publication will also supersede the AGPS publication *ASCO Dictionary*.

Expected release date: 31 March 1997

Price: tba

*ASCO Manual Coding System:  
Occupation Level (1227.0)*

This publication will be updated for ASCO Second Edition. The coding procedures will remain unchanged.

This publication specifies the procedures and provides the indexes for the manual coding of occupation data to the 986 categories at the most detailed level of ASCO. It is intended for users who wish to assign six-digit ASCO codes on the basis of relatively detailed information such as is available from human resource management systems, job vacancy specifications or responses in special purpose statistical collections. For users wishing to code to the four-digit level only, the same coding procedures may be used, recording only the first four digits of the code. A four-digit index will be available if required on request.

Additional classification  
information on electronic media

*Floppy disk*

The above publications, or parts thereof, will be available as floppy disk products using ASCII text files. Further information and order forms for ASCO Second Edition products may be obtained from the ASCO contact officer or through ABS bookshops located in ABS State and Territory offices following the release of *Australian Standard Classification of Occupations (ASCO) Second Edition (1220.0)*.

*CD-ROM*

It is intended to provide most of the ASCO Second Edition products on CD-ROM. The classification together with definitions, coding procedures (both manual and computer-assisted) will be available on a single CD-ROM. Further details of this product will be available in March 1997.

*Computer-assisted coding systems*

The previous computer-assisted coding package, ASCO Expert, will not be available after July 1997. However, the same coding methodology will be available in a Windows-based coder which will supersede the First Edition products *ASCO Expert Coding System: Unit Group Level (1990) (1224.0)* and *ASCO Expert Coding System: Occupation Level (1991) (1226.0)*. The Windows-based coder is already available for coding industry data to the Australian and New Zealand Standard Industrial Classification and will be able to be used for coding occupation data when ASCO Second Edition is released in March 1997. Further information regarding the Windows coder can be obtained from either Doug Baldwin on (06) 252 5346 (for industry coding) or Andrew Woolley on (06) 252 7073 (for occupation coding).

## ASCO SERVICES

The ABS offers a consultancy service to organisations which are considering adopting ASCO as the basis of human resource management systems or using ASCO in their own statistical collections. These services are charged at an ABS standard rate.

Further details of ASCO publications and products may be found in the *ABS Catalogue of Publications and Products* (1101.0). Publications are available through ABS bookshops. A complete listing of ABS products on floppy disk may be found in the *Catalogue of Electronic Products* (1111.0).

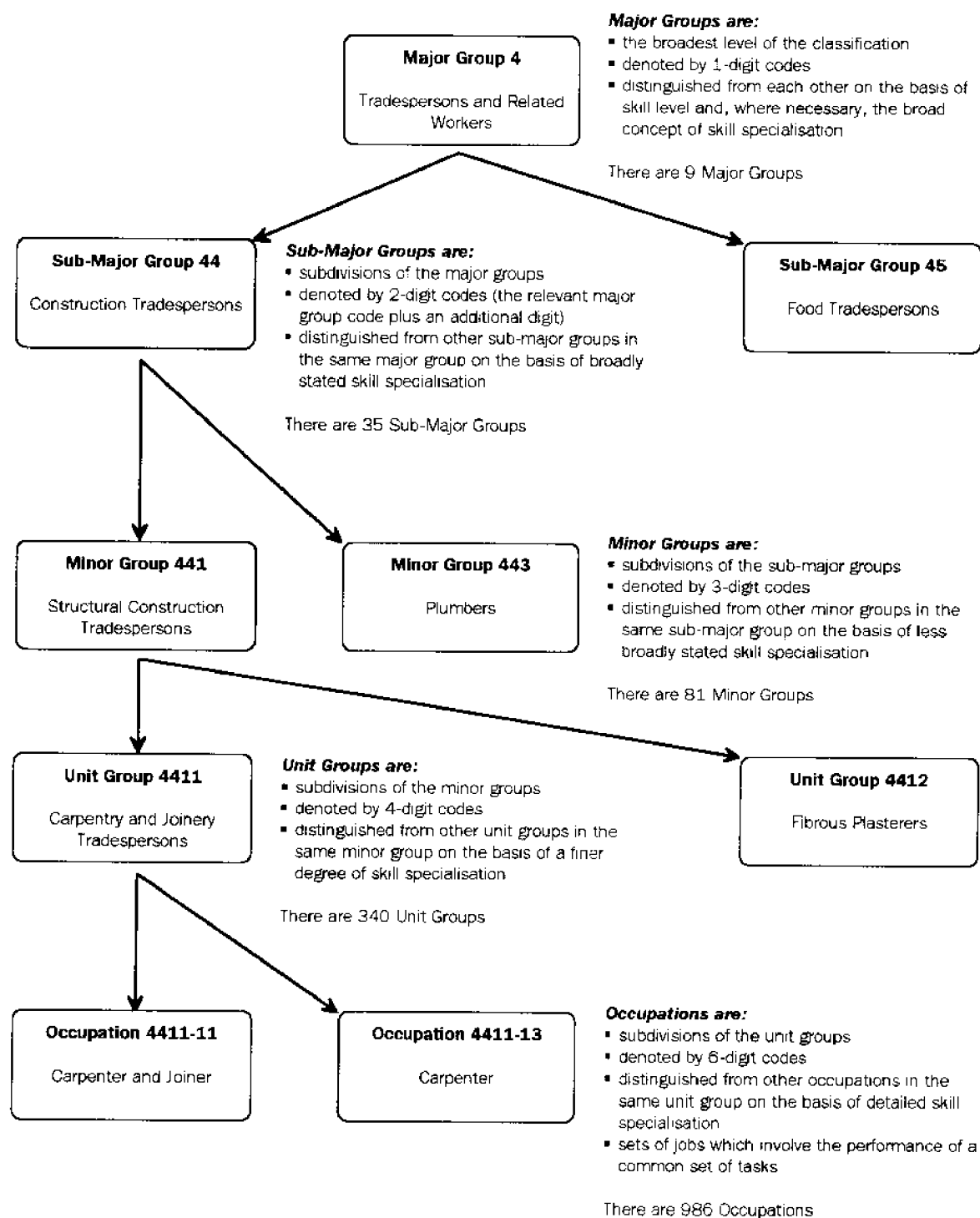
Inquiries regarding these products should be directed to the ASCO contact officer on (06) 252 5757. Order forms will be available from the contact officer, or through ABS bookshops.

## APPENDIX 1 PROFILE OF THE ASCO SECOND EDITION STRUCTURE

The structure of ASCO Second Edition has five levels:

major group  
sub-major group  
minor group  
unit group  
occupation

The following is an illustration of a representative part of the ASCO Second Edition structure:





## APPENDIX 2 ASCO SECOND EDITION SKILL LEVELS

MAJOR GROUP		SKILL LEVEL	
1	Managers and Administrators	}	1
2	Professionals		
3	Associate Professionals		2
4	Tradespersons and Related Workers	}	3
5	Advanced Clerical and Service Workers		
6	Intermediate Clerical, Sales and Service Workers	}	4
7	Intermediate Production and Transport Workers		
8	Elementary Clerical, Sales and Service Workers	}	5
9	Labourers and Related Workers		

The relationship between the nine major groups and five skill levels is explained under the heading Conceptual Basis and Structure of ASCO on page 5.

## APPENDIX 3 ASCO SECOND EDITION — MAJOR AND SUB-MAJOR GROUPS

### **1 MANAGERS AND ADMINISTRATORS**

- 11 Generalist Managers
- 12 Specialist Managers
- 13 Farmers and Farm Managers

### **2 PROFESSIONALS**

- 21 Science, Building and Engineering Professionals
- 22 Business and Information Professionals
- 23 Health Professionals
- 24 Education Professionals
- 25 Social, Arts and Miscellaneous Professionals

### **3 ASSOCIATE PROFESSIONALS**

- 31 Science, Engineering and Related Associate Professionals
- 32 Business and Administration Associate Professionals
- 33 Managing Supervisors (Sales and Service)
- 34 Health and Welfare Associate Professionals
- 39 Other Associate Professionals

### **4 TRADESPERSONS AND RELATED WORKERS**

- 41 Mechanical and Fabrication Engineering Tradespersons
- 42 Automotive Tradespersons
- 43 Electrical and Electronics Tradespersons
- 44 Construction Tradespersons
- 45 Food Tradespersons
- 46 Skilled Agricultural and Horticultural Workers
- 49 Other Tradespersons and Related Workers

### **5 ADVANCED CLERICAL AND SERVICE WORKERS**

- 51 Secretaries and Personal Assistants
- 59 Other Advanced Clerical and Service Workers

### **6 INTERMEDIATE CLERICAL, SALES AND SERVICE WORKERS**

- 61 Intermediate Clerical Workers
- 62 Intermediate Sales and Related Workers
- 63 Intermediate Service Workers

### **7 INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS**

- 71 Intermediate Plant Operators
- 72 Intermediate Machine Operators
- 73 Road and Rail Transport Drivers
- 79 Other Intermediate Production and Transport Workers

### **8 ELEMENTARY CLERICAL, SALES AND SERVICE WORKERS**

- 81 Elementary Clerks
- 82 Elementary Sales Workers
- 83 Elementary Service Workers

### **9 LABOURERS AND RELATED WORKERS**

- 91 Cleaners
- 92 Factory Labourers
- 99 Other Labourers and Related Workers

## APPENDIX 4 ASCO SECOND EDITION — MAJOR, SUB-MAJOR, MINOR, UNIT GROUPS AND OCCUPATIONS

<b>1</b>	<b>MANAGERS AND ADMINISTRATORS</b>	1222-13	Production Manager (Mining)
<b>11</b>	<b>GENERALIST MANAGERS</b>	<b>1223</b>	<b>Supply and Distribution Managers</b>
<b>111</b>	<b>GENERAL MANAGERS AND ADMINISTRATORS</b>	1223-11	Supply and Distribution Manager
<b>1111</b>	<b>Legislators and Government Appointed Officials</b>	<b>1224</b>	<b>Information Technology Managers</b>
1111-11	Parliamentarian or Councillor	1224-11	Information Technology Manager
1111-13	Judge	<b>123</b>	<b>SALES AND MARKETING MANAGERS</b>
1111-15	Magistrate	<b>1231</b>	<b>Sales and Marketing Managers</b>
1111-17	Tribunal Member	1231-11	Sales and Marketing Manager
1111-79	Legislators and Government Appointed Officials nec	<b>129</b>	<b>MISCELLANEOUS SPECIALIST MANAGERS</b>
<b>1112</b>	<b>General Managers</b>	<b>1291</b>	<b>Policy and Planning Managers</b>
1112-11	General Manager	1291-11	Policy and Planning Manager
<b>119</b>	<b>MISCELLANEOUS GENERALIST MANAGERS</b>	<b>1292</b>	<b>Health Services Managers</b>
<b>1191</b>	<b>Building and Construction Managers</b>	1292-11	Director of Nursing
1191-11	Construction Project Manager	1292-13	Medical Administrator
1191-13	Project Builder	<b>1293</b>	<b>Education Managers</b>
<b>1192</b>	<b>Importers, Exporters and Wholesalers</b>	1293-11	School Principal
1192-11	Importer or Exporter	1293-13	Faculty Head
1192-13	Wholesaler	1293-15	Regional Education Manager
<b>1193</b>	<b>Manufacturers</b>	1293-79	Education Managers nec
1193-11	Manufacturer	<b>1294</b>	<b>Commissioned Officers (Management)</b>
<b>12</b>	<b>SPECIALIST MANAGERS</b>	1294-11	Commissioned Defence Force Officer
<b>121</b>	<b>RESOURCE MANAGERS</b>	1294-13	Commissioned Fire Officer
<b>1211</b>	<b>Finance Managers</b>	1294-15	Commissioned Police Officer
1211-11	Finance Manager	1294-81	Trainee Commissioned Defence Force Officer
<b>1212</b>	<b>Company Secretaries</b>	<b>1295</b>	<b>Child Care Co-ordinators</b>
1212-11	Company Secretary	1295-11	Child Care Co-ordinator
<b>1213</b>	<b>Human Resource Managers</b>	<b>1296</b>	<b>Media Producers and Artistic Directors</b>
1213-11	Human Resource Manager	1296-11	Media Producer
<b>122</b>	<b>ENGINEERING, DISTRIBUTION AND PROCESS MANAGERS</b>	1296-13	Artistic Director
<b>1221</b>	<b>Engineering Managers</b>	<b>1299</b>	<b>Other Specialist Managers</b>
1221-11	Engineering Manager	1299-11	Research and Development Manager
<b>1222</b>	<b>Production Managers</b>	1299-13	Laboratory Manager
1222-11	Production Manager (Manufacturing)	1299-15	Welfare Centre Manager
		1299-17	Environment, Parks and Land Care Manager
		1299-19	Sports Administrator
		1299-79	Specialist Managers nec

## **13 FARMERS AND FARM MANAGERS**

### **131 FARMERS AND FARM MANAGERS**

#### **1311 Mixed Crop and Livestock Farmers**

1311-11 Mixed Crop and Livestock Farmer

#### **1312 Livestock Farmers**

1312-11 Mixed Livestock Farmer

1312-13 Beef Cattle Farmer

1312-15 Dairy Farmer

1312-17 Sheep Farmer

1312-19 Pig Farmer

1312-21 Poultry Farmer

1312-23 Horse Breeder

1312-25 Apiarist

1312-79 Livestock Farmers nec

#### **1313 Crop Farmers**

1313-11 Grain, Oilseed and Pasture Grower

1313-13 Sugar Cane Grower

1313-15 Tobacco Grower

1313-17 Fruit and Nut Grower

1313-19 Vegetable Grower

1313-21 Flower Grower

1313-79 Crop Farmers nec

#### **1314 Aquaculture Farmers**

1314-11 Aquaculture Farmer

## **2 PROFESSIONALS**

### **21 SCIENCE, BUILDING AND ENGINEERING PROFESSIONALS**

#### **211 NATURAL AND PHYSICAL SCIENCE PROFESSIONALS**

##### **2111 Chemists**

2111-11 Chemist

##### **2112 Geologists and Geophysicists**

2112-11 Geologist

2112-13 Geophysicist

##### **2113 Life Scientists**

2113-11 Anatomist or Physiologist

2113-13 Botanist

2113-15 Zoologist

2113-17 Biochemist

2113-19 Marine Biologist

2113-79 Life Scientists nec

##### **2114 Environmental and Agricultural Science Professionals**

2114-11 Environmental Research Scientist

2114-13 Forester

2114-15 Park Ranger

2114-17 Soil Scientist

2114-19 Agricultural Scientist

2114-21 Agricultural Adviser

2114-79 Environmental and Agricultural Science Professionals nec

##### **2115 Medical Scientists**

2115-11 Medical Scientist

##### **2119 Other Natural and Physical Science Professionals**

2119-11 Physicist

2119-13 Meteorologist

2119-15 Extractive Metallurgist

2119-17 Physical Metallurgist

2119-19 Materials Scientist

2119-79 Natural and Physical Science Professionals nec

##### **212 BUILDING AND ENGINEERING PROFESSIONALS**

###### **2121 Architects and Landscape Architects**

2121-11 Architect

2121-13 Landscape Architect

###### **2122 Quantity Surveyors**

2122-11 Quantity Surveyor

###### **2123 Cartographers and Surveyors**

2123-11 Cartographer

2123-13 Surveyor

###### **2124 Civil Engineers**

2124-11 Civil Engineer

###### **2125 Electrical and Electronics Engineers**

2125-11 Electrical Engineer

2125-13 Electronics Engineer

###### **2126 Mechanical, Production and Plant Engineers**

2126-11 Mechanical Engineer

2126-13 Production or Plant Engineer

###### **2127 Mining and Materials Engineers**

2127-11 Mining Engineer (excluding Petroleum)

2127-13 Petroleum Engineer

2127-15 Materials Engineer

###### **2128 Engineering Technologists**

2128-11 Civil Engineering Technologist

2128-13	Mechanical Engineering Technologist	2231-17	Applications and Analyst Programmer
2128-15	Electrical or Electronics Engineering Technologist	2231-19	Systems Programmer
2128-79	Engineering Technologists nec	2231-21	Computer Systems Auditor
2129	<b>Other Building and Engineering Professionals</b>	2231-79	Computing Professionals nec
2129-11	Aeronautical Engineer	229	<b>MISCELLANEOUS BUSINESS AND INFORMATION PROFESSIONALS</b>
2129-13	Agricultural Engineer	2291	<b>Human Resource Professionals</b>
2129-15	Biomedical Engineer	2291-11	Personnel Officer
2129-17	Chemical Engineer	2291-13	Personnel Consultant
2129-19	Industrial Engineer	2291-15	Industrial Relations Officer
2129-21	Naval Architect	2291-17	Training Officer
2129-79	Building and Engineering Professionals nec	2292	<b>Librarians</b>
22	<b>BUSINESS AND INFORMATION PROFESSIONALS</b>	2292-11	Librarian
221	<b>ACCOUNTANTS, AUDITORS AND CORPORATE TREASURERS</b>	2293	<b>Mathematicians, Statisticians and Actuaries</b>
2211	<b>Accountants</b>	2293-11	Mathematician
2211-11	Accountant	2293-13	Statistician
2212	<b>Auditors</b>	2293-15	Actuary
2212-11	External Auditor	2294	<b>Business and Organisation Analysts</b>
2212-13	Internal Auditor	2294-11	Management Consultant
2213	<b>Corporate Treasurers</b>	2294-13	Organisation and Methods Analyst
2213-11	Corporate Treasurer	2294-15	Quality Assurance Manager
222	<b>SALES, MARKETING AND ADVERTISING PROFESSIONALS</b>	2295	<b>Property Professionals</b>
2221	<b>Marketing and Advertising Professionals</b>	2295-11	Valuer
2221-11	Public Relations Officer	2295-13	Land Economist
2221-13	Marketing Specialist	2299	<b>Other Business and Information Professionals</b>
2221-15	Market Research Analyst	2299-11	Health Information Manager
2221-17	Advertising Specialist	2299-13	Records Manager
2222	<b>Technical Sales Representatives</b>	2299-15	Archivist
2222-11	Sales Representative (Industrial Products)	2299-17	Policy Analyst
2222-13	Sales Representative (Information and Communication Products)	2299-19	Intelligence Officer
2222-15	Sales Representative (Medical and Pharmaceutical Products)	2299-79	Business and Information Professionals nec
2222-79	Technical Sales Representatives nec	23	<b>HEALTH PROFESSIONALS</b>
223	<b>COMPUTING PROFESSIONALS</b>	231	<b>MEDICAL PRACTITIONERS</b>
2231	<b>Computing Professionals</b>	2311	<b>Generalist Medical Practitioners</b>
2231-11	Systems Manager	2311-11	General Medical Practitioner
2231-13	Systems Designer	2311-81	Medical Practitioner in Training
2231-15	Software Designer	2312	<b>Specialist Medical Practitioners</b>
		2312-11	Anaesthetist
		2312-13	Dermatologist
		2312-15	Emergency Medicine Specialist

2312-17 Obstetrician and Gynaecologist  
 2312-19 Ophthalmologist  
 2312-21 Paediatrician  
 2312-23 Pathologist  
 2312-25 Specialist Physician  
 2312-27 Psychiatrist  
 2312-29 Radiologist  
 2312-31 Surgeon  
 2312-79 Specialist Medical Practitioners nec  
**232 NURSING PROFESSIONALS**  
**2321 Nurse Managers**  
 2321-11 Nurse Manager  
**2322 Nurse Educators and Researchers**  
 2322-11 Nurse Educator  
 2322-13 Nurse Researcher  
**2323 Registered Nurses**  
 2323-11 Registered Nurse  
**2324 Registered Midwives**  
 2324-11 Registered Midwife  
**2325 Registered Mental Health Nurses**  
 2325-11 Registered Mental Health Nurse  
**2326 Registered Developmental Disability Nurses**  
 2326-11 Registered Developmental Disability Nurse  
**238 MISCELLANEOUS HEALTH PROFESSIONALS**  
**2381 Dental Practitioners**  
 2381-11 Dentist  
 2381-13 Dental Specialist  
**2382 Pharmacists**  
 2382-11 Hospital Pharmacist  
 2382-13 Industrial Pharmacist  
 2382-15 Retail Pharmacist  
**2383 Occupational Therapists**  
 2383-11 Occupational Therapist  
**2384 Optometrists**  
 2384-11 Optometrist  
**2385 Physiotherapists**  
 2385-11 Physiotherapist  
**2386 Speech Pathologists**  
 2386-11 Speech Pathologist  
**2387 Chiropractors and Osteopaths**

2387-11 Chiropractor  
 2387-13 Osteopath  
**2388 Podiatrists**  
 2388-11 Podiatrist  
**2391 Medical Imaging Professionals**  
 2391-11 Medical Diagnostic Radiographer  
 2391-13 Radiation Therapist  
 2391-15 Nuclear Medicine Technologist  
 2391-17 Sonographer  
**2392 Veterinarians**  
 2392-11 Veterinarian  
**2393 Dietitians**  
 2393-11 Dietitian  
**2394 Natural Therapy Professionals**  
 2394-11 Naturopath  
 2394-13 Acupuncturist  
 2394-79 Natural Therapy Professionals nec  
**2399 Other Health Professionals**  
 2399-11 Audiologist  
 2399-13 Orthoptist  
 2399-15 Orthotist  
 2399-79 Health Professionals nec  
**24 EDUCATION PROFESSIONALS**  
**241 SCHOOL TEACHERS**  
**2411 Pre-Primary School Teachers**  
 2411-11 Pre-Primary School Teacher  
**2412 Primary School Teachers**  
 2412-11 Primary School Teacher  
**2413 Secondary School Teachers**  
 2413-11 Secondary School Teacher  
**2414 Special Education Teachers**  
 2414-11 Special Needs Teacher  
 2414-13 Teacher of the Hearing Impaired  
 2414-15 Teacher of the Sight Impaired  
 2414-79 Special Education Teachers nec  
**242 UNIVERSITY AND VOCATIONAL EDUCATION TEACHERS**  
**2421 University Lecturers and Tutors**  
 2421-11 University Lecturer  
 2421-13 University Tutor  
**2422 Vocational Education Teachers**  
 2422-11 Vocational Education Teacher

**249 MISCELLANEOUS EDUCATION PROFESSIONALS**

**2491 Extra-Systemic Teachers**

2491-11 Art Teacher (Private)

2491-13 Music Teacher (Private)

2491-15 Dance Teacher (Private)

2491-17 Drama Teacher (Private)

2491-79 Extra-Systemic Teachers nec

**2492 English as a Second Language Teachers**

2492-11 English as a Second Language Teacher

**2493 Education Officers**

2493-11 Education Officer

**25 SOCIAL, ARTS AND MISCELLANEOUS PROFESSIONALS**

**251 SOCIAL WELFARE PROFESSIONALS**

**2511 Social Workers**

2511-11 Social Worker

**2512 Welfare and Community Workers**

2512-11 Welfare Worker

2512-13 Community Worker

**2513 Counsellors**

2513-11 Rehabilitation Counsellor

2513-13 Drug and Alcohol Counsellor

2513-15 Family Counsellor

2513-17 Careers Counsellor

2513-19 Student Counsellor

2513-79 Counsellors nec

**2514 Psychologists**

2514-11 Clinical Psychologist

2514-13 Educational Psychologist

2514-15 Organisational Psychologist

2514-79 Psychologists nec

**2515 Ministers of Religion**

2515-11 Minister of Religion

**252 MISCELLANEOUS SOCIAL PROFESSIONALS**

**2521 Legal Professionals**

2521-11 Barrister

2521-13 Solicitor

2521-79 Legal Professionals nec

**2522 Economists**

2522-11 Economist

**2523 Urban and Regional Planners**

2523-11 Urban and Regional Planner

**2529 Other Social Professionals**

2529-11 Historian

2529-13 Interpreter

2529-15 Translator

2529-79 Social Professionals nec

**253 ARTISTS AND RELATED PROFESSIONALS**

**2531 Visual Arts and Crafts Professionals**

2531-11 Painter (Visual Arts)

2531-13 Sculptor

2531-15 Potter or Ceramic Artist

2531-79 Visual Arts and Crafts Professionals nec

**2532 Photographers**

2532-11 Photographer

**2533 Designers and Illustrators**

2533-11 Fashion Designer

2533-13 Graphic Designer

2533-15 Industrial Designer

2533-17 Interior Designer

2533-19 Illustrator

**2534 Journalists and Related Professionals**

2534-11 Editor

2534-13 Print Journalist

2534-15 Television Journalist

2534-17 Radio Journalist

2534-19 Copywriter

2534-21 Technical Writer

2534-79 Journalists and Related Professionals nec

**2535 Authors and Related Professionals**

2535-11 Author

2535-13 Book Editor

2535-15 Script Editor

**2536 Film, Television, Radio and Stage Directors**

2536-11 Art Director (Film, Television or Stage)

2536-13 Director (Film, Television, Radio or Stage)

2536-15 Director of Photography

2536-17 Film and Video Editor

2536-19 Stage Manager

2536-21 Program Director (Radio or Television)

2536-23 Technical Director

2536-79 Film, Television, Radio and Stage Directors  
nec

**2537 Musicians and Related Professionals**

2537-11 Music Director

2537-13 Singer

2537-15 Instrumental Musician

2537-17 Composer

2537-79 Musicians and Related Professionals nec

**2538 Actors, Dancers and Related Professionals**

2538-11 Actor

2538-13 Dancer or Choreographer

2538-79 Actors, Dancers and Related Professionals  
nec

**2539 Media Presenters**

2539-11 Radio Presenter

2539-13 Television Presenter

**254 MISCELLANEOUS PROFESSIONALS**

**2541 Air Transport Professionals**

2541-11 Aircraft Pilot

2541-13 Air Traffic Controller

2541-15 Flight Service Officer

2541-17 Flight Engineer

2541-19 Flying Instructor

2541-79 Air Transport Professionals nec

**2542 Sea Transport Professionals**

2542-11 Ship's Master

2542-13 Master Fisher

2542-15 Ship's Engineer

2542-17 Ship's Surveyor

2542-19 Ship's Officer

2542-79 Sea Transport Professionals nec

**2543 Occupational and Environmental Health Professionals**

2543-11 Occupational Health and Safety Officer

2543-13 Environmental Health Officer

**2549 Other Professionals**

2549-11 Conservator

2549-13 Electorate Officer

2549-15 Patents Examiner

2549-17 Oenologist

2549-19 Recreation Officer

2549-21 Museum or Gallery Curator

2549-79 Professionals nec

**3 ASSOCIATE PROFESSIONALS**

**31 SCIENCE, ENGINEERING AND RELATED ASSOCIATE PROFESSIONALS**

**311 MEDICAL AND SCIENCE TECHNICAL OFFICERS**

**3111 Medical Technical Officers**

3111-11 Medical Laboratory Technical Officer

3111-79 Medical Technical Officers nec

**3112 Science Technical Officers**

3112-11 Chemistry Technical Officer

3112-13 Earth Science Technical Officer

3112-15 Life Science Technical Officer

3112-17 Agricultural Technical Officer

3112-79 Science Technical Officers nec

**312 BUILDING AND ENGINEERING ASSOCIATE PROFESSIONALS**

**3121 Building, Architectural and Surveying Associate Professionals**

3121-11 Building Associate

3121-13 Architectural Associate

3121-15 Surveying and Cartographic Associate

3121-17 Building Inspector

3121-19 Plumbing Inspector

3121-21 Plumbing Engineering Associate

**3122 Civil Engineering Associate Professionals**

3122-11 Civil Engineering Associate

3122-13 Civil Engineering Technician

**3123 Electrical Engineering Associate Professionals**

3123-11 Electrical Engineering Associate

3123-13 Electrical Engineering Technician

**3124 Electronic Engineering Associate Professionals**

3124-11 Electronic Engineering Associate

3124-13 Electronic Engineering Technician

**3125 Mechanical Engineering Associate Professionals**

3125-11 Mechanical Engineering Associate

3125-13 Mechanical Engineering Technician

**3129 Other Building and Engineering Associate Professionals**

3129-11 Biomedical Engineering Associate

3129-13 Metallurgical and Materials Technician



3129-15 Mine Deputy

3129-79 Building and Engineering Associate Professionals nec

**32 BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS**

**321 FINANCE ASSOCIATE PROFESSIONALS**

**3211 Branch Accountants and Managers (Financial Institution)**

3211-11 Branch Accountant (Financial Institution)

3211-13 Financial Institution Branch Manager

**3212 Financial Dealers and Brokers**

3212-11 Stockbroking Dealer

3212-13 Futures Trader

3212-15 Financial Market Dealer

3212-17 Commodities Trader

3212-19 Insurance Broker

3212-21 Bookmaker

3212-79 Financial Dealers and Brokers nec

**3213 Financial Investment Advisers**

3213-11 Financial Investment Adviser

**329 MISCELLANEOUS BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS**

**3291 Office Managers**

3291-11 Office Manager

**3292 Project and Program Administrators**

3292-11 Project or Program Administrator

**3293 Real Estate Associate Professionals**

3293-11 Real Estate Agency Manager

3293-13 Property Manager

3293-15 Real Estate Salesperson

**3294 Computing Support Technicians**

3294-11 Computing Support Technician

**33 MANAGING SUPERVISORS (SALES AND SERVICE)**

**331 SHOP MANAGERS**

**3311 Shop Managers**

3311-11 Shop Manager

**332 HOSPITALITY AND ACCOMMODATION MANAGERS**

**3321 Restaurant and Catering Managers**

3321-11 Restaurant and Catering Manager

**3322 Chefs**

3322-01 Head Chef

3322-11 Chef

**3323 Hotel and Motel Managers**

3323-11 Hotel or Motel Manager

**3324 Club Managers (Licensed Premises)**

3324-11 Club Manager (Licensed Premises)

**3325 Caravan Park and Camping Ground Managers**

3325-11 Caravan Park and Camping Ground Manager

**3329 Other Hospitality and Accommodation Managers**

3329-11 Other Hospitality and Accommodation Managers

**339 MISCELLANEOUS MANAGING SUPERVISORS (SALES AND SERVICE)**

**3391 Sport and Recreation Managers**

3391-11 Fitness Centre Manager

3391-13 Other Sports Centre Manager

3391-15 Amusement Centre Manager

3391-79 Sport and Recreation Managers nec

**3392 Customer Service Managers**

3392-11 Customer Service Manager

**3393 Transport Company Managers**

3393-11 Transport Company Manager

**3399 Other Managing Supervisors (Sales and Service)**

3399-11 Post Office Manager

3399-13 Railway Station Manager

3399-15 Betting Agency Branch Manager

3399-17 Hair and Beauty Salon Manager

3399-19 Car Rental Agency Manager

3399-21 Fleet Manager

3399-23 Stock and Station Agent

3399-25 Travel Agency Manager

3399-27 Theatre or Cinema Manager

3399-29 Funeral Director

3399-79 Managing Supervisors (Sales and Service) nec

**34 HEALTH AND WELFARE ASSOCIATE PROFESSIONALS**

**341 ENROLLED NURSES**

**3411 Enrolled Nurses**

3411-11	Enrolled Nurse	3993-23	Swimming Coach
342	<b>WELFARE ASSOCIATE PROFESSIONALS</b>	3993-25	Horseriding Coach
3421	<b>Welfare Associate Professionals</b>	3993-27	Other Sports Coach
3421-11	Parole or Probation Officer	3993-29	Sports Development Officer
3421-13	Youth Worker	3993-31	Sports Umpire
3421-15	Residential Care Officer	3993-33	Horse or Dog Racing Official
3421-17	Disabilities Services Officer	3993-35	Other Sports Official
3421-19	Family Support Worker	3994	<b>Senior Non-Commissioned Defence Force Officers</b>
349	<b>MISCELLANEOUS HEALTH AND WELFARE ASSOCIATE PROFESSIONALS</b>	3994-11	Senior Non-Commissioned Defence Force Officer
3491	<b>Ambulance Officers and Paramedics</b>	3995	<b>Senior Fire Fighters</b>
3491-11	Ambulance Officer	3995-11	Senior Fire Fighter
3491-13	Intensive Care Ambulance Paramedic	3996	<b>Retail Buyers</b>
3492	<b>Dental Associate Professionals</b>	3996-11	Retail Buyer
3492-11	Dental Therapist	3997	<b>Library Technicians</b>
3492-13	Dental Hygienist	3997-11	Library Technician
3492-15	Dental Technician	3999	<b>Other Miscellaneous Associate Professionals</b>
3493	<b>Aboriginal and Torres Strait Islander Health Workers</b>	3999-11	Interior Decorator
3493-11	Aboriginal and Torres Strait Islander Health Worker	3999-13	Museum or Art Gallery Technician
3494	<b>Massage Therapists</b>	3999-15	Radio Operator
3494-11	Massage Therapist	3999-17	Private Investigator
39	<b>OTHER ASSOCIATE PROFESSIONALS</b>	3999-19	Security Adviser
391	<b>POLICE OFFICERS</b>	3999-79	Associate Professionals nec
3911	<b>Police Officers</b>	4	<b>TRADESPERSONS AND RELATED WORKERS</b>
3911-01	Supervisor, Police Officers	41	<b>MECHANICAL AND FABRICATION ENGINEERING TRADESPERSONS</b>
3911-11	Police Officer	411	<b>MECHANICAL ENGINEERING TRADESPERSONS</b>
399	<b>MISCELLANEOUS ASSOCIATE PROFESSIONALS</b>	4111	<b>General Mechanical Engineering Tradespersons</b>
3991	<b>Primary Products Inspectors</b>	4111-01	Supervisor, General Mechanical Engineering Tradespersons
3991-11	Primary Products Inspector	4111-11	General Mechanical Engineering Tradesperson
3992	<b>Safety Inspectors</b>	4111-81	Apprentice General Mechanical Engineering Tradesperson
3992-11	Safety Inspector	4112	<b>Metal Fitters and Machinists</b>
3993	<b>Sportspersons, Coaches and Related Support Workers</b>	4112-01	Supervisor, Metal Fitters and Machinists
3993-11	Jockey	4112-11	Fitter
3993-13	Golfer	4112-13	Metal Machinist (First Class)
3993-15	Footballer	4112-15	Textile, Clothing or Footwear Mechanic
3993-17	Other Sportsperson		
3993-19	Gymnastics Coach		
3993-21	Tennis Coach		

4112-81 Apprentice Fitter  
 4112-83 Apprentice Metal Machinist  
 4112-85 Apprentice Textile, Clothing or Footwear Mechanic  
**4113 Toolmakers**  
 4113-01 Supervisor, Toolmakers  
 4113-11 Toolmaker  
 4113-81 Apprentice Toolmaker  
**4114 Aircraft Maintenance Engineers**  
 4114-01 Supervisor, Aircraft Maintenance Engineers  
 4114-11 Aircraft Maintenance Engineer (Mechanical)  
 4114-13 Aircraft Maintenance Engineer (Structures)  
 4114-15 Aircraft Maintenance Engineer (Avionics)  
 4114-81 Apprentice Aircraft Maintenance Engineer (Mechanical)  
 4114-83 Apprentice Aircraft Maintenance Engineer (Structures)  
 4114-85 Apprentice Aircraft Maintenance Engineer (Avionics)  
**4115 Precision Metal Tradespersons**  
 4115-01 Supervisor, Precision Metal Tradespersons  
 4115-11 Precision Instrument Maker and Repairer  
 4115-13 Watch and Clock Maker and Repairer  
 4115-15 Locksmith  
 4115-17 Saw Maker and Repairer  
 4115-19 Gunsmith  
 4115-21 Engraver  
 4115-81 Apprentice Precision Metal Tradesperson  
**412 FABRICATION ENGINEERING TRADESPERSONS**  
**4121 General Fabrication Engineering Tradespersons**  
 4121-01 Supervisor, General Fabrication Engineering Tradespersons  
 4121-11 General Fabrication Engineering Tradesperson  
 4121-81 Apprentice General Fabrication Engineering Tradesperson  
**4122 Structural Steel and Welding Tradespersons**  
 4122-01 Supervisor, Structural Steel and Welding Tradespersons  
 4122-11 Metal Fabricator  
 4122-13 Pressure Welder  
 4122-15 Welder (First Class)  
 4122-81 Apprentice Metal Fabricator

4122-83 Apprentice Welder  
**4123 Forging Tradespersons**  
 4123-01 Supervisor, Forging Tradespersons  
 4123-11 Blacksmith  
 4123-13 Farrier  
 4123-81 Apprentice Blacksmith  
 4123-83 Apprentice Farrier  
**4124 Sheetmetal Tradespersons**  
 4124-01 Supervisor, Sheetmetal Tradespersons  
 4124-11 Sheetmetal Worker (First Class)  
 4124-81 Apprentice Sheetmetal Worker  
**4125 Metal Casting Tradespersons**  
 4125-01 Supervisor, Metal Casting Tradespersons  
 4125-11 Metal Casting Tradesperson  
 4125-81 Apprentice Metal Casting Tradesperson  
**4126 Metal Finishing Tradespersons**  
 4126-01 Supervisor, Metal Finishing Tradespersons  
 4126-11 Metal Polisher  
 4126-13 Electroplater (First Class)  
 4126-81 Apprentice Metal Polisher  
 4126-83 Apprentice Electroplater  
**42 AUTOMOTIVE TRADESPERSONS**  
**421 AUTOMOTIVE TRADESPERSONS**  
**4211 Motor Mechanics**  
 4211-01 Supervisor, Motor Mechanics  
 4211-11 Motor Mechanic  
 4211-81 Apprentice Motor Mechanic  
**4212 Automotive Electricians**  
 4212-01 Supervisor, Automotive Electricians  
 4212-11 Automotive Electrician  
 4212-81 Apprentice Automotive Electrician  
**4213 Panel Beaters**  
 4213-01 Supervisor, Panel Beaters  
 4213-11 Panel Beater  
 4213-81 Apprentice Panel Beater  
**4214 Vehicle Painters**  
 4214-01 Supervisor, Vehicle Painters  
 4214-11 Vehicle Painter  
 4214-81 Apprentice Vehicle Painter  
**4215 Vehicle Body Makers**  
 4215-01 Supervisor, Vehicle Body Makers  
 4215-11 Vehicle Body Maker

4215-81 Apprentice Vehicle Body Maker

**4216 Vehicle Trimmers**

4216-01 Supervisor, Vehicle Trimmers

4216-11 Vehicle Trimmer

4216-81 Apprentice Vehicle Trimmer

**43 ELECTRICAL AND ELECTRONICS TRADESPERSONS**

**431 ELECTRICAL AND ELECTRONICS TRADESPERSONS**

**4311 Electricians**

4311-01 Supervisor, Electricians

4311-11 General Electrician

4311-13 Electrician (Special Class)

4311-15 Lift Mechanic

4311-81 Apprentice Electrician

4311-83 Apprentice Lift Mechanic

**4312 Refrigeration and Airconditioning Mechanics**

4312-01 Supervisor, Refrigeration and Airconditioning Mechanics

4312-11 Refrigeration and Airconditioning Mechanic

4312-81 Apprentice Refrigeration and Airconditioning Mechanic

**4313 Electrical Distribution Tradespersons**

4313-01 Supervisor, Electrical Distribution Tradespersons

4313-11 Electrical Powerline Tradesperson

4313-13 Cable Joiner

4313-81 Apprentice Electrical Powerline Tradesperson

4313-83 Apprentice Cable Joiner

**4314 Electronic Instrument Tradespersons**

4314-01 Supervisor, Electronic Instrument Tradespersons

4314-11 General Electronic Instrument Tradesperson

4314-13 Electronic Instrument Tradesperson (Special Class)

4314-81 Apprentice Electronic Instrument Tradesperson

**4315 Electronic and Office Equipment Tradespersons**

4315-01 Supervisor, Electronic and Office Equipment Tradespersons

4315-11 Electronic Equipment Tradesperson

4315-13 Business Machine Mechanic

4315-81 Apprentice Electronic Equipment Tradesperson

4315-83 Apprentice Business Machine Mechanic

**4316 Communications Tradespersons**

4316-01 Supervisor, Communications Tradespersons

4316-11 General Communications Tradesperson

4316-13 Communications Linesperson

4316-81 Apprentice General Communications Tradesperson

4316-83 Apprentice Communications Linesperson

**44 CONSTRUCTION TRADESPERSONS**

**441 STRUCTURAL CONSTRUCTION TRADESPERSONS**

**4411 Carpentry and Joinery Tradespersons**

4411-01 Supervisor, Carpentry and Joinery Tradespersons

4411-11 Carpenter and Joiner

4411-13 Carpenter

4411-15 Joiner

4411-81 Apprentice Carpenter and Joiner

4411-83 Apprentice Carpenter

4411-85 Apprentice Joiner

**4412 Fibrous Plasterers**

4412-01 Supervisor, Fibrous Plasterers

4412-11 Fibrous Plasterer

4412-81 Apprentice Fibrous Plasterer

**4413 Roof Slaters and Tilers**

4413-01 Supervisor, Roof Slaters and Tilers

4413-11 Roof Slater and Tiler

4413-81 Apprentice Roof Slater and Tiler

**4414 Bricklayers**

4414-01 Supervisor, Bricklayers

4414-11 Bricklayer

4414-81 Apprentice Bricklayer

**4415 Solid Plasterers**

4415-01 Supervisor, Solid Plasterers

4415-11 Solid Plasterer

4415-81 Apprentice Solid Plasterer

**4416 Wall and Floor Tilers and Stonemasons**

4416-01 Supervisor, Wall and Floor Tilers and Stonemasons

4416-11 Wall and Floor Tiler

4416-13 Stonemason

4416-81 Apprentice Wall and Floor Tiler  
 4416-83 Apprentice Stonemason  
**442 FINAL FINISHES CONSTRUCTION TRADESPERSONS**  
**4421 Painters and Decorators**  
 4421-01 Supervisor, Painters and Decorators  
 4421-11 Painter and Decorator  
 4421-81 Apprentice Painter and Decorator  
**4422 Signwriters**  
 4422-01 Supervisor, Signwriters  
 4422-11 Signwriter  
 4422-81 Apprentice Signwriter  
**4423 Floor Finishers**  
 4423-01 Supervisor, Floor Finishers  
 4423-11 Floor Finisher  
 4423-81 Apprentice Floor Finisher  
**443 PLUMBERS**  
**4431 Plumbers**  
 4431-01 Supervisor, Plumbers  
 4431-11 General Plumber  
 4431-13 Gasfitter  
 4431-15 Drainer  
 4431-17 Roof Plumber  
 4431-19 Mechanical Services and Airconditioning Plumber  
 4431-81 Apprentice General Plumber  
 4431-83 Apprentice Gasfitter  
 4431-85 Apprentice Drainer  
 4431-87 Apprentice Roof Plumber  
 4431-89 Apprentice Mechanical Services and Airconditioning Plumber  
**45 FOOD TRADESPERSONS**  
**451 FOOD TRADESPERSONS**  
**4511 Meat Tradespersons**  
 4511-01 Supervisor, Meat Tradespersons  
 4511-11 Butcher  
 4511-13 Smallgoods Maker  
 4511-15 Slaughterperson  
 4511-81 Apprentice Butcher  
 4511-83 Apprentice Smallgoods Maker  
 4511-85 Apprentice Slaughterperson  
**4512 Bakers and Pastrycooks**  
 4512-01 Supervisor, Bakers and Pastrycooks

4512-11 Baker  
 4512-13 Pastrycook  
 4512-81 Apprentice Baker  
 4512-83 Apprentice Pastrycook  
**4513 Cooks**  
 4513-11 Cook  
 4513-81 Apprentice Cook or Chef  
**4519 Other Food Tradespersons**  
 4519-11 Miller  
 4519-13 Buttermaker or Cheesemaker  
 4519-15 Confectioner  
 4519-81 Apprentice Miller  
 4519-83 Apprentice Buttermaker or Cheesemaker  
 4519-85 Apprentice Confectioner  
**46 SKILLED AGRICULTURAL AND HORTICULTURAL WORKERS**  
**461 SKILLED AGRICULTURAL WORKERS**  
**4611 Farm Overseers**  
 4611-11 Farm Overseer  
**4612 Shearers**  
 4612-11 Shearer  
**4613 Wool, Hide and Skin Classers**  
 4613-11 Wool Classer  
 4613-13 Hide and Skin Classer  
**4614 Animal Trainers**  
 4614-11 Horse Trainer  
 4614-79 Animal Trainers nec  
**462 HORTICULTURAL TRADESPERSONS**  
**4621 Nurserypersons**  
 4621-11 Nurseryperson  
 4621-81 Apprentice Nurseryperson  
**4622 Greenkeepers**  
 4622-11 Greenkeeper  
 4622-81 Apprentice Greenkeeper  
**4623 Gardeners**  
 4623-01 Head Gardener  
 4623-11 General Gardener  
 4623-13 Landscape Gardener  
 4623-15 Tree Surgeon  
 4623-81 Apprentice General Gardener  
 4623-83 Apprentice Landscape Gardener  
 4623-85 Apprentice Tree Surgeon

**49 OTHER TRADESPERSONS AND RELATED WORKERS**

**491 PRINTING TRADESPERSONS**

**4911 Graphic Pre-Press Tradespersons**

4911-11 Graphic Pre-Press Tradesperson

4911-81 Apprentice Graphic Pre-Press Tradesperson

**4912 Printing Machinists and Small Offset Printers**

4912-11 Printing Machinist

4912-13 Small Offset Printer

4912-81 Apprentice Printing Machinist

4912-83 Apprentice Small Offset Printer

**4913 Binders and Finishers**

4913-11 Binder and Finisher

4913-81 Apprentice Binder and Finisher

**4914 Screen Printers**

4914-11 Screen Printer

4914-81 Apprentice Screen Printer

**492 WOOD TRADESPERSONS**

**4921 Wood Machinists and Turners**

4921-11 Wood Machinist (A-Grade)

4921-13 Wood Turner

4921-81 Apprentice Wood Machinist

4921-83 Apprentice Wood Turner

**4922 Cabinetmakers**

4922-01 Supervisor, Cabinetmakers

4922-11 Cabinetmaker

4922-81 Apprentice Cabinetmaker

**4929 Other Wood Tradespersons**

4929-11 Picture Framer

4929-13 Furniture Finisher

4929-79 Wood Tradespersons nec

4929-81 Apprentice Picture Framer

4929-83 Apprentice Furniture Finisher

4929-99 Apprentice Wood Tradespersons nec

**493 HAIRDRESSERS**

**4931 Hairdressers**

4931-01 Supervisor, Hairdressers

4931-11 Hairdresser

4931-81 Apprentice Hairdresser

**494 TEXTILE, CLOTHING AND RELATED TRADESPERSONS**

**4941 Clothing Tradespersons**

4941-11 General Clothing Tradesperson

4941-13 Tailor

4941-15 Dressmaker

4941-17 Apparel Cutter

4941-19 Patternmaker-Grader (Clothing)

4941-79 Clothing Tradespersons nec

4941-81 Apprentice Clothing Tradesperson

**4942 Upholsterers and Bedding Tradespersons**

4942-11 Furniture Upholsterer

4942-79 Upholsterers and Bedding Tradespersons nec

4942-81 Apprentice Upholsterer or Bedding Tradespersons

**4943 Footwear Tradespersons**

4943-11 Shoemaker

4943-13 Medical Grade Shoemaker

4943-81 Apprentice Shoemaker

**4944 Leather Goods, Canvas Goods and Sail Makers**

4944-11 Leather Goods Maker

4944-13 Canvas Goods Maker

4944-15 Sail Maker

4944-81 Apprentice Leather Goods, Canvas Goods or Sail Maker

**498 MISCELLANEOUS TRADESPERSONS AND RELATED WORKERS**

**4981 Marine Construction Tradespersons**

4981-11 Shipwright

4981-13 Boat Builder and Repairer

4981-81 Apprentice Shipwright

4981-83 Apprentice Boat Builder and Repairer

**4982 Glass Tradespersons**

4982-11 Flat Glass Tradesperson

4982-13 Glass Blower

4982-81 Apprentice Flat Glass Tradesperson

4982-83 Apprentice Glass Blower

**4983 Jewellers and Related Tradespersons**

4983-11 Jeweller

4983-13 Gem Cutter and Polisher

4983-81 Apprentice Jeweller

4983-83 Apprentice Gem Cutter and Polisher

**4984 Florists**  
 4984-11 Florist  
**4985 Fire Fighters**  
 4985-11 Fire Fighter  
**4986 Drillers**  
 4986-01 Supervisor, Drillers  
 4986-11 Driller  
**4987 Chemical, Petroleum and Gas Plant Operators**  
 4987-01 Supervisor, Chemical, Petroleum and Gas Plant Operators  
 4987-11 Chemical Plant Operator  
 4987-13 Petroleum and Gas Plant Operator  
**4988 Power Generation Plant Operators**  
 4988-01 Supervisor, Power Generation Plant Operators  
 4988-11 Power Generation Plant Operator  
**4991 Defence Force Members Not Elsewhere Included**  
 4991-11 Defence Force Member Not Elsewhere Included  
 4991-81 Trainee Defence Force Member Not Elsewhere Included  
**4992 Performing Arts Support Workers**  
 4992-11 Sound Technician  
 4992-13 Camera Operator (Film, Television or Video)  
 4992-15 Television Equipment Operator  
 4992-17 Broadcast Transmitter Operator  
 4992-19 Motion Picture Projectionist  
 4992-21 Light Technician  
 4992-23 Production Assistant (Film, Television or Radio)  
 4992-25 Production Assistant (Theatre)  
 4992-27 Make Up Artist  
 4992-79 Performing Arts Support Workers nec  
**4999 Other Miscellaneous Tradespersons and Related Workers**  
 4999-11 Optical Mechanic  
 4999-13 Diver  
 4999-15 Aircraft Safety Equipment Worker  
 4999-17 Piano Tuner  
 4999-79 Tradespersons and Related Workers nec

**5 ADVANCED CLERICAL AND SERVICE WORKERS**  
**51 SECRETARIES AND PERSONAL ASSISTANTS**  
 511 SECRETARIES AND PERSONAL ASSISTANTS  
 5111 Secretaries and Personal Assistants  
 5111-11 Secretary  
 5111-13 Personal Assistant  
**59 OTHER ADVANCED CLERICAL AND SERVICE WORKERS**  
**591 ADVANCED NUMERICAL CLERKS**  
 5911 Bookkeepers  
 5911-11 Bookkeeper  
**5912 Credit and Loans Officers**  
 5912-11 Credit and Loans Officer  
**599 MISCELLANEOUS ADVANCED CLERICAL AND SERVICE WORKERS**  
**5991 Advanced Legal and Related Clerks**  
 5991-11 Clerk of Court  
 5991-13 Law Clerk  
 5991-15 Trust Officer  
**5992 Court and Hansard Reporters**  
 5992-11 Court or Hansard Reporter  
**5993 Insurance Agents**  
 5993-11 Insurance Agent  
**5994 Insurance Risk Surveyors, Investigators and Loss Adjusters**  
 5994-11 Insurance Risk Surveyor  
 5994-13 Insurance Investigator  
 5994-15 Insurance Loss Adjuster  
**5995 Desktop Publishing Operators**  
 5995-11 Desktop Publishing Operator  
**5996 Travel Attendants**  
 5996-11 Flight Service Director  
 5996-13 Flight Attendant  
 5996-79 Travel Attendants nec  
**5999 Other Miscellaneous Advanced Clerical and Service Workers**  
 5999-11 Radio Despatcher  
 5999-13 Auctioneer  
 5999-15 Visual Merchandiser  
 5999-17 Photographer's Assistant

**6 INTERMEDIATE CLERICAL,  
SALES AND SERVICE WORKERS**

**61 INTERMEDIATE CLERICAL  
WORKERS**

**611 GENERAL CLERKS**

**6111 General Clerks**

6111-11 General Clerk

**612 KEYBOARD OPERATORS**

**6121 Keyboard Operators**

6121-11 Typist and Word Processing Operator

6121-13 Data Entry Operator

**613 RECEPTIONISTS**

**6131 Receptionists**

6131-11 Receptionist

**614 INTERMEDIATE NUMERICAL CLERKS**

**6141 Accounting Clerks**

6141-01 Supervisor, Accounting Clerks

6141-11 Accounts Clerk

6141-13 Credit Clerk

6141-15 Cost Clerk

**6142 Payroll Clerks**

6142-11 Payroll Clerk

**6143 Bank Workers**

6143-01 Supervisor, Bank Workers

6143-11 Bank Worker

**6144 Insurance Clerks**

6144-01 Supervisor, Insurance Clerks

6144-11 Insurance Clerk

**6145 Money Market and Statistical Clerks**

6145-01 Supervisor, Money Market and Statistical Clerks

6145-11 Money Market Clerk

6145-13 Statistical Clerk

**615 MATERIAL RECORDING AND  
DESPATCHING CLERKS**

**6151 Production Recording Clerks**

6151-11 Production Recording Clerk

**6152 Transport and Despatching Clerks**

6152-01 Supervisor, Transport and Despatching Clerks

6152-11 Receiving and Despatching Clerk

6152-13 Import-Export Clerk

**6153 Stock and Purchasing Clerks**

6153-01 Supervisor, Stock and Purchasing Clerks

6153-11 Stock Clerk

6153-13 Purchasing Officer

6153-15 Order Clerk

6153-17 Sales Clerk

**619 MISCELLANEOUS INTERMEDIATE  
CLERICAL WORKERS**

**6191 Inquiry and Admissions Clerks**

6191-11 Inquiry Clerk

6191-13 Admissions Clerk

**6192 Library Assistants**

6192-11 Library Assistant

**6193 Personnel Clerks**

6193-11 Personnel Records Clerk

6193-13 Employment Office Clerk

**6194 Intermediate Inspectors and Examiners**

6194-11 Customs Inspector

6194-13 Taxation Inspector

6194-15 Social Security Assessor

6194-17 Motor Vehicle Licence Examiner

6194-19 Transport Operations Inspector

6194-21 Train Examiner

6194-23 Water Inspector

6194-79 Intermediate Inspectors and Examiners  
nec

**6199 Other Intermediate Clerical Workers**

6199-11 Proof Reader

6199-13 Debt Collector

6199-15 Mail Supervisor

6199-17 Court Orderly

6199-19 Bailiff or Sheriff

6199-21 Coding Clerk

6199-79 Intermediate Clerical Workers nec

**62 INTERMEDIATE SALES AND  
RELATED WORKERS**

**621 INTERMEDIATE SALES AND RELATED  
WORKERS**

**6211 Sales Representatives**

6211-11 Sales Representative (Personal and Household Goods)

6211-13 Sales Representative (Business Services)

6211-15 Sales Representative (Builder's and Plumber's Supplies)



6211-17 Sales Representative (Motor Vehicle Parts and Accessories)  
 6211-79 Sales Representatives nec

**6212 Motor Vehicle and Related Products Salespersons**

6212-11 Motor Vehicle and Caravan Salesperson  
 6212-13 Motor Vehicle Parts Interpreter

**6213 Retail and Checkout Supervisors**

6213-11 Retail Supervisor  
 6213-13 Checkout Supervisor

**63 INTERMEDIATE SERVICE WORKERS**

**631 CARERS AND AIDES**

**6311 Education Aides**

6311-11 Pre-School Aide  
 6311-13 Integration Aide  
 6311-15 Teachers' Aide  
 6311-17 Aboriginal and Torres Strait Islander Education Worker

**6312 Children's Care Workers**

6312-11 Child Care Worker  
 6312-13 Family Day Care Worker  
 6312-15 Nanny

**6313 Special Care Workers**

6313-11 Hostel Parent  
 6313-13 Child or Youth Residential Care Assistant  
 6313-15 Refuge Worker  
 6313-17 Aged or Disabled Person Carer  
 6313-19 Therapy Aide

**6314 Personal Care and Nursing Assistants**

6314-11 Personal Care Assistant  
 6314-13 Nursing Assistant

**632 HOSPITALITY WORKERS**

**6321 Hotel Service Supervisors**

6321-11 Hotel Service Supervisor

**6322 Bar Attendants**

6322-01 Supervisor, Bar Attendants  
 6322-11 Bar Attendant

**6323 Waiters**

6323-01 Supervisor, Waiters  
 6323-11 General Waiter  
 6323-13 Drink Waiter

**6324 Hospitality Trainees**

6324-11 Hospitality Trainee

**639 MISCELLANEOUS INTERMEDIATE SERVICE WORKERS**

**6391 Dental Assistants**

6391-11 Dental Assistant

**6392 Veterinary Nurses**

6392-11 Veterinary Nurse

**6393 Prison Officers**

6393-11 Prison Officer

**6394 Gaming Workers**

6394-11 Gaming Pit Boss  
 6394-13 Gaming Table Supervisor  
 6394-15 Gaming Dealer

**6395 Personal Care Consultants**

6395-11 Beauty Therapist  
 6395-13 Natural Remedy Consultant  
 6395-15 Weight Loss Consultant

**6396 Fitness Instructors and Related Workers**

6396-11 Fitness Instructor  
 6396-13 Outdoor Adventure Leader

**6397 Travel and Tourism Agents**

6397-11 Travel Agent  
 6397-13 Tourist Information Officer  
 6397-15 Tour Guide

**6399 Other Intermediate Service Workers**

6399-11 Museum or Gallery Attendant  
 6399-13 Driving Instructor  
 6399-15 Animal Attendant  
 6399-17 Pest and Weed Controller  
 6399-79 Intermediate Service Workers nec

**7 INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS**

**71 INTERMEDIATE PLANT OPERATORS**

**711 MOBILE PLANT OPERATORS**

**7111 Mobile Construction Plant Operators**

7111-11 General Construction Plant Operator  
 7111-13 Bulldozer Operator  
 7111-15 Backhoe Operator  
 7111-17 Loader Operator  
 7111-19 Grader Operator  
 7111-21 Excavator Operator

7111-23	Paving Plant Operator	7211-11	Sewing Machinist
7111-25	Road Roller Operator	<b>7212 Textile and Footwear Production Machine Operators</b>	
<b>7112 Forklift Drivers</b>		7212-01	Supervisor, Textile and Footwear Production Machine Operators
7112-11	Forklift Driver	7212-11	Yarn Carding and Spinning Machine Operator
<b>7119 Other Mobile Plant Operators</b>		7212-13	Weaving Machine Operator
7119-11	Agricultural and Horticultural Mobile Plant Operator	7212-15	Knitting Machine Operator
7119-13	Railway Track Repair Mobile Plant Operator	7212-17	Textile Dyeing and Finishing Machine Operator
7119-15	Streetsweeper Operator	7212-19	Hide and Skin Processing Machine Operator
7119-17	Logging Plant Operator	7212-21	Footwear Production Machine Operator
7119-79	Mobile Plant Operators nec	7212-79	Textile and Footwear Production Machine Operators nec
<b>712 INTERMEDIATE STATIONARY PLANT OPERATORS</b>		<b>729 MISCELLANEOUS INTERMEDIATE MACHINE OPERATORS</b>	
<b>7121 Engine and Boiler Operators</b>		<b>7291 Plastics Production Machine Operators</b>	
7121-11	Engine or Boiler Operator	7291-01	Supervisor, Plastics Production Machine Operators
<b>7122 Crane, Hoist and Lift Operators</b>		7291-11	General Plastics Production Machine Operator
7122-11	Crane, Hoist or Lift Operator	7291-13	Plastics Compounding and Reclamation Machine Operator
<b>7123 Engineering Production Systems Workers</b>		7291-15	Reinforced Plastic and Composite Production Worker
7123-01	Supervisor, Engineering Production Systems Workers	7291-17	Plastic Cabling Machine Operator
7123-11	Engineering Production Systems Worker	7291-79	Plastics Production Machine Operators nec
<b>7124 Pulp and Paper Mill Operators</b>		<b>7292 Rubber Production Machine Operators</b>	
7124-11	Pulp Mill Operator	7292-01	Supervisor, Rubber Production Machine Operators
7124-13	Paper Mill Operator	7292-11	Tyre Production Machine Operator
<b>7129 Other Intermediate Stationary Plant Operators</b>		7292-79	Rubber Production Machine Operators nec
7129-01	Supervisor, Other Intermediate Stationary Plant Operators	<b>7293 Chemical Production Machine Operators</b>	
7129-11	Railway Signal Operator	7293-01	Supervisor, Chemical Production Machine Operators
7129-13	Train Controller	7293-11	Chemical Production Machine Operator
7129-15	Concrete Pump Operator	<b>7294 Wood Processing Machine Operators</b>	
7129-17	Cement Production Plant Operator	7294-01	Supervisor, Wood Processing Machine Operators
7129-19	Concrete Batching Plant Operator	7294-11	Wood Processing Machine Operator
7129-21	Water and Waste Water Plant Operator	<b>7295 Paper Products Machine Operators</b>	
7129-23	Bulk Materials Handling Plant Operator	7295-11	Paper Products Machine Operator
7129-79	Intermediate Stationary Plant Operators nec	<b>7296 Glass Production Machine Operators</b>	
<b>72 INTERMEDIATE MACHINE OPERATORS</b>			
<b>721 INTERMEDIATE TEXTILE, CLOTHING AND RELATED MACHINE OPERATORS</b>			
<b>7211 Sewing Machinists</b>			
7211-01	Supervisor, Sewing Machinists		

7296-01 Supervisor, Glass Production Machine Operators

7296-11 Glass Production Machine Operator

**7297 Clay, Stone and Concrete Processing Machine Operators**

7297-01 Supervisor, Clay, Stone and Concrete Processing Machine Operators

7297-11 Clay Products Machine Operator

7297-13 Stone Processing Machine Operator

7297-15 Concrete Products Machine Operator

7297-79 Clay, Stone and Concrete Processing Machine Operators nec

**7298 Photographic Developers and Printers**

7298-11 Photographic Developer and Printer

**7299 Other Intermediate Machine Operators**

7299-11 Industrial Spray Painter

7299-79 Intermediate Machine Operators nec

**73 ROAD AND RAIL TRANSPORT DRIVERS**

**731 ROAD AND RAIL TRANSPORT DRIVERS**

**7311 Truck Drivers**

7311-11 Heavy Truck Driver

7311-13 Furniture Removalist

**7312 Bus and Tram Drivers**

7312-11 Bus Driver

7312-13 Tram Driver

**7313 Automobile Drivers**

7313-11 Automobile Driver

**7314 Delivery Drivers**

7314-11 Delivery Driver

**7315 Train Drivers and Assistants**

7315-11 Train Driver

7315-13 Train Driver's Assistant

**79 OTHER INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS**

**791 INTERMEDIATE MINING AND CONSTRUCTION WORKERS**

**7911 Miners**

7911-11 Miner

**7912 Blasting Workers**

7912-11 Blasting Worker

**7913 Structural Steel Construction Workers**

**7913-11 Scaffolder**

**7913-13 Steel Fixer**

**7913-15 Structural Steel Erector**

**7913-17 Construction Rigger**

**7914 Insulation and Home Improvements Installers**

7914-11 Building Insulation Installer

7914-13 Home Improvements Installer

**799 MISCELLANEOUS INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS**

**7991 Motor Vehicle Parts and Accessories Fitters**

7991-11 Motor Vehicle Parts and Accessories Fitter

**7992 Product Quality Controllers**

7992-11 Product Examiner

7992-13 Product Grader

7992-15 Product Tester

**7993 Storepersons**

7993-01 Supervisor, Storepersons

7993-11 Storeperson

**7994 Seafarers and Fishing Hands**

7994-11 Seafarer

7994-13 Fishing Hand

**7995 Forestry and Logging Workers**

7995-01 Supervisor, Forestry and Logging Workers

7995-11 Tree Faller

7995-13 Forestry Worker

7995-15 Logging Assistant

**7996 Printing Hands**

7996-11 Printing Table Hand

7996-13 Printer's Assistant

**8 ELEMENTARY CLERICAL, SALES AND SERVICE WORKERS**

**81 ELEMENTARY CLERKS**

**811 ELEMENTARY CLERKS**

**8111 Registry and Filing Clerks**

8111-11 Registry or Filing Clerk

**8112 Mail Sorting Clerks**

8112-11 Mail Clerk

8112-13 Postal Sorting Officer

**8113 Switchboard Operators**

8113-11 Switchboard Operator

**8114 Messengers**

8114-11 Courier

8114-13 Postal Delivery Officer

**8115 Betting Clerks**

8115-11 Betting Agency Counter Clerk

8115-13 Telephone Betting Clerk

8115-15 Bookmaker's Clerk

8115-79 Betting Clerks nec

**8116 Office Trainees**

8116-11 Office Trainee

**8119 Other Elementary Clerks**

8119-11 Meter Reader

8119-13 Classified Advertising Clerk

8119-15 Interviewer

8119-17 Parking Inspector

8119-79 Elementary Clerks nec

**82 ELEMENTARY SALES WORKERS****821 SALES ASSISTANTS****8211 Sales Assistants**

8211-11 Sales Assistant (Food and Drink Products)

8211-13 Sales Assistant (Fabric, Clothing and Footwear)

8211-15 Sales Assistant (Other Personal and Household Goods)

8211-17 Sales Assistant (Postal Services)

8211-79 Sales Assistants nec

**829 MISCELLANEOUS ELEMENTARY SALES WORKERS****8291 Checkout Operators and Cashiers**

8291-11 Checkout Operator

8291-13 Office Cashier

**8292 Ticket Salespersons**

8292-11 Ticket Seller

8292-13 Transport Conductor

**8293 Street Vendors and Related Workers**

8293-11 Street Vendor

8293-13 Cash Van Salesperson

8293-15 Door-to-Door Salesperson

**8294 Telemarketers**

8294-11 Telemarketer

**8295 Sales Demonstrators and Models**

8295-11 Sales Demonstrator

8295-13 Model

**8296 Service Station Attendants**

8296-11 Service Station Attendant

**8297 Sales and Service Trainees**

8297-11 Sales and Service Trainee

**8299 Other Elementary Sales Workers**

8299-11 Rental Salesperson

8299-13 Materials Recycler

8299-79 Elementary Sales Workers nec

**83 ELEMENTARY SERVICE WORKERS****831 ELEMENTARY SERVICE WORKERS****8311 Guards and Security Officers**

8311-11 Security Officer

8311-13 Armoured Car Escort

8311-79 Guards and Security Officers nec

**8312 Ushers, Porters and Related Workers**

8312-11 Ticket Collector or Usher

8312-13 Luggage Porter or Doorperson

**8313 Domestic Housekeepers**

8313-11 Domestic Housekeeper

**8314 Caretakers**

8314-11 Caretaker

**8315 Laundry Workers**

8315-11 Laundry Worker

**8319 Other Elementary Service Workers**

8319-11 Railways Assistant

8319-13 Hair and Beauty Salon Assistant

8319-15 Sterilisation Technology Worker

8319-17 Car Park Attendant

8319-19 Crossing Supervisor

8319-21 Trolley Collector

8319-23 Leaflet and Newspaper Deliverer

8319-25 Examination Supervisor

8319-27 Prostitute or Escort

8319-79 Elementary Service Workers nec

**9 LABOURERS AND RELATED WORKERS****91 CLEANERS****911 CLEANERS****9111 Cleaners**

9111-11 Commercial Cleaner

9111-13 Domestic Cleaner

9111-15	Carpet Cleaner	9222-11	Packager and Container Filler
9111-17	Vehicle Cleaner	<b>99</b>	<b>OTHER LABOURERS AND RELATED WORKERS</b>
9111-19	Window Cleaner	<b>991</b>	<b>MINING, CONSTRUCTION AND RELATED LABOURERS</b>
9111-79	Cleaners nec	<b>9911</b>	<b>Mining Support Workers and Driller's Assistants</b>
<b>92</b>	<b>FACTORY LABOURERS</b>	9911-11	Mining Support Worker
<b>921</b>	<b>PROCESS WORKERS</b>	9911-13	Driller's Assistant
<b>9211</b>	<b>Engineering Production Process Workers</b>	<b>9912</b>	<b>Earthmoving Labourers</b>
9211-11	Engineering Production Process Worker	9912-11	Earthmoving Labourer
<b>9212</b>	<b>Product Assemblers</b>	<b>9913</b>	<b>Paving and Surfacing Labourers</b>
9212-11	Product Assembler	9913-11	Paving and Surfacing Labourer
<b>9213</b>	<b>Meat and Fish Process Workers</b>	<b>9914</b>	<b>Survey Hands</b>
9213-11	Meatworks Labourer	9914-11	Survey Hand
9213-13	Meat Boner and Slicer	<b>9915</b>	<b>Railway Labourers</b>
9213-15	Poultry Process Worker	9915-11	Railway Labourer
9213-17	Fish Process Worker	<b>9916</b>	<b>Construction and Plumber's Assistants</b>
<b>9214</b>	<b>Other Food Factory Hands</b>	9916-11	Construction Assistant
9214-11	Food and Drink Processing Machine Attendant	9916-13	Plumber's Assistant
9214-13	Baking Factory Hand	<b>9917</b>	<b>Concreters</b>
9214-15	Dairy Factory Hand	9917-11	Concreter
9214-17	Fruit and Vegetable Factory Hand	<b>9918</b>	<b>Electrical and Telecommunications Trades Assistants</b>
9214-19	Food Products Millhand	9918-11	Electrical or Telecommunications Trades Assistant
9214-79	Food Factory Hands nec	<b>9919</b>	<b>Other Mining, Construction and Related Labourers</b>
<b>9215</b>	<b>Wood Products Factory Hands</b>	9919-11	Lagger
9215-11	Sawmill Labourer	9919-13	Crane Chaser
9215-13	Timberyard Labourer	9919-15	Fence Erector
9215-15	Wood and Wood Products Factory Hand	<b>992</b>	<b>AGRICULTURAL AND HORTICULTURAL LABOURERS</b>
9215-17	Pulp and Paper Mill General Hand	<b>9921</b>	<b>Farm Hands</b>
<b>9219</b>	<b>Other Process Workers</b>	9921-11	General Farm Hand
9219-11	Cement and Concrete Plant Labourer	9921-13	Fruit, Vegetable or Nut Farm Hand
9219-13	Clay Processing Factory Hand	9921-15	Stud Hand or Stable Hand
9219-15	Chemical Plant Labourer	9921-17	Shearing Shed Hand
9219-17	Rubber and Plastics Factory Hand	9921-79	Farm Hands nec
9219-19	Hide and Skin Processing Labourer	<b>9922</b>	<b>Nursery and Garden Labourers</b>
9219-21	Glass Processing Labourer	9922-11	Horticultural Nursery Assistant
9219-23	Fabric and Textile Factory Hand	9922-13	Garden Labourer
9219-25	Footwear Factory Hand	<b>9929</b>	<b>Other Agricultural and Horticultural Labourers</b>
9219-79	Process Workers nec		
<b>922</b>	<b>PRODUCT PACKAGERS</b>		
<b>9221</b>	<b>Hand Packers</b>		
9221-11	Hand Packer		
<b>9222</b>	<b>Packagers and Container Fillers</b>		

9929-11 Shooter-Trapper  
 9929-13 Rural Trainee  
 9929-79 Agricultural and Horticultural Labourers  
 nec  
**993 ELEMENTARY FOOD PREPARATION  
 AND RELATED WORKERS**  
**9931 Kitchenhands**  
 9931-11 Kitchenhand  
**9932 Fast Food Cooks**  
 9932-11 Fast Food Cook  
**9933 Food Trades Assistants**  
 9933-11 Pastrycook's Assistant  
 9933-79 Food Trades Assistants nec  
**999 MISCELLANEOUS LABOURERS AND  
 RELATED WORKERS**  
**9991 Garbage Collectors**

9991-11 Garbage Collector  
**9992 Freight and Furniture Handlers**  
 9992-11 Freight Handler (Road and Rail)  
 9992-13 Waterside Worker  
 9992-15 Truck Driver's Offsider  
**9993 Handypersons**  
 9993-11 Handyman  
**9999 Other Miscellaneous Labourers and  
 Related Workers**  
 9999-11 Vending Machine Attendant  
 9999-13 Sign Erector  
 9999-15 Mechanic's Assistant  
 9999-17 Stormwater, Drainage and Sewerage  
 System Labourer  
 9999-79 Labourers and Related Workers nec



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The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the ABS Catalogue of Publications and Products available from all ABS Offices.

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