

## **Industry and Occupational Employment Growth in Western Australia**

This report provides data on employment growth in Western Australian industries and occupations between the 1996 and 2001 Census. The report uses the Australian and New Zealand Standard Industrial Classification (ANZSIC) and the Australian Standard Classification of Occupations (ASCO) to classify industries and occupations respectively.

ANZSIC divides industries into 17 divisions identifying groups of businesses which carry out similar economic activities. The term 'business' is used in its widest sense to include any organisation which provides goods and services, including companies, non-profit organisations, government departments and enterprises. This report examines industries at the Group, or three digit level

For a full explanation and listing of the Australian and New Zealand Standard Industrial Classification coding system, please refer to the Australian Bureau of Statistics (ABS) website at

<http://www.abs.gov.au/Ausstats/abs%40.nsf/66f306f503e529a5ca25697e0017661f/7cd8aebba7225c4eca25697e0018faf3!OpenDocument>

ASCO divides all occupations into groupings based on skill. In ASCO, occupations are classified according to two main criteria – skill level and skill specialisation. An 'occupation' is a set of jobs with similar sets of tasks. An occupation in ASCO is a collection of jobs which are sufficiently similar in their main tasks to be grouped together for the purposes of the classification. This report examines occupations at the Unit Group, or four digit level.

For a full explanation and listing of the Australian Standard Classification of Occupations coding system, please refer to the Australian Bureau of Statistics (ABS) website at <http://www.abs.gov.au/Ausstats/abs%40.nsf/66f306f503e529a5ca25697e0017661f/5c244fd9d252cfc8ca25697e00184d35!OpenDocument>

The statistics in this report are derived from the ABS Census. Only industries and occupations with employment levels above 500 in both the 1996 and 2001 Census were included.

While the following tables highlight changes in employment levels in industries and occupations, the data should be used with caution. Some increases may have resulted as a consequence of:

- changes/improvements in coding (eg the proportion of those employed in Education undefined and Other education has dropped from 21.8% of total Education in the 1996 Census to 12.1% of total Education in the 2001 Census, hence the other classes of Education have increased);
- changes in how Census questions are worded (eg many of those employed on the Community Development Employment Program (CDEP) were coded to Government administration in the 2001 Census rather than Community services as they were in the 1996 Census); and to
- how occupations "non-specific" occupations are coded (eg it would appear that many Solid plasterers just calling themselves Plasterers were coded as Fibrous plasterers).

## Industries with Fastest Employment Growth 1996-2001

	Number employed in 2001	% difference in employment between 1996 & 2001
Iron and Steel Manufacturing	3,820	169.2
Oil and Gas Extraction	2,553	130.2
Computer Services	8,258	93.6
Other Insurance	5,296	91.9
Marine Fishing	1,180	75.3
Textile Product Manufacturing	1,547	75.0
Furniture, Houseware and Appliance Retailing	13,393	74.8
Household Good Wholesaling	2,025	68.2
Photographic and Scientific Equipment Manufacturing	992	64.8
Accommodation	11,647	63.2
Services to Finance and Investment	4,809	57.6
Film and Video Services	1,391	57.2
Other Chemical Product Manufacturing	2,264	53.5
Grain, Sheep and Beef Cattle Farming	20,406	52.4
Food, Drink and Tobacco Wholesaling	9,566	52.4
Preschool Education	968	52.2
Parks and Gardens	955	50.9
Road Freight Transport	11,362	47.0
Arts	1,788	46.9
Building Construction	14,058	45.3
Water Transport	1,190	42.7
Justice	2,055	41.3
Financial Asset Investors	979	40.3
Electrical Equipment and Appliance Manufacturing	1,877	36.7
Personal and Household Goods Hiring	2,009	36.1
Other Personal and Household Good Retailing	14,014	36.1
Veterinary Services	1,367	33.4
Other Business Services	24,628	33.2
Other Construction Services	5,613	32.9
Cafes and Restaurants	20,797	31.7
Forestry and Logging	1,442	30.9
Legal and Accounting Services	14,763	30.5
Gas Supply	752	27.5
Life Insurance and Superannuation Funds	892	26.9
Specialised Food Retailing	25,271	26.6
School Education	38,193	26.5
Government Administration	30,423	25.7
Public Order and Safety Services	11,047	25.6
Beverage and Malt Manufacturing	2,384	25.4
Religious Organisations	2,166	25.1
Horticulture and Fruit Growing	6,370	23.3
Sport	6,793	22.3
Other Manufacturing	1,508	21.7
Supermarket and Grocery Stores	21,663	20.7
Air and Space Transport	3,367	20.4
Road Passenger Transport	5,755	19.2
Other Wood Product Manufacturing	2,472	19.1
Plastic Product Manufacturing	1,808	18.0
Furniture Manufacturing	5,518	17.5
Other Personal Services	15,102	17.4
Electronic Equipment Manufacturing	1,868	16.4
Building Completion Services	11,131	15.7
Industrial Machinery and Equipment Manufacturing	5,677	15.1
Site Preparation Services	4,155	14.9
Building Structure Services	5,996	14.9
Basic Non-Ferrous Metal Manufacturing	4,846	13.7
Metal Ore Mining	17,151	13.5
Motor Vehicle Wholesaling	4,615	12.9
Community Care Services	12,829	12.1
Petroleum Refining	779	11.3
TOTAL ALL INDUSTRIES	827,563	8.1

Source: ABS 1996 & 2001 Unpublished Census data

## Industries with Largest Employment Growth 1996-2001

	Number employed in 2001	Difference in employment between 1996 & 2001
School Education	38,193	7,997
Grain, Sheep and Beef Cattle Farming	20,406	7,015
Government Administration	30,423	6,215
Other Business Services	24,628	6,143
Furniture, Houseware and Appliance Retailing	13,393	5,732
Specialised Food Retailing	25,271	5,315
Cafes and Restaurants	20,797	5,000
Accommodation	11,647	4,512
Building Construction	14,058	4,383
Computer Services	8,258	3,993
Supermarket and Grocery Stores	21,663	3,720
Other Personal and Household Good Retailing	14,014	3,715
Road Freight Transport	11,362	3,631
Legal and Accounting Services	14,763	3,453
Food, Drink and Tobacco Wholesaling	9,566	3,288
Other Insurance	5,296	2,536
Iron and Steel Manufacturing	3,820	2,401
Public Order and Safety Services	11,047	2,250
Other Personal Services	15,102	2,237
Metal Ore Mining	17,151	2,037
Services to Finance and Investment	4,809	1,758
Building Completion Services	11,131	1,509
Oil and Gas Extraction	2,553	1,444
Other Construction Services	5,613	1,391
Community Care Services	12,829	1,384
Sport	6,793	1,238
Horticulture and Fruit Growing	6,370	1,202
Installation Trade Services	12,136	1,124
Post School Education	13,754	1,096
Medical and Dental Services	11,733	1,088
Road Passenger Transport	5,755	925
Household Good Wholesaling	2,025	821
Furniture Manufacturing	5,518	820
Other Chemical Product Manufacturing	2,264	789
Building Structure Services	5,996	777
Industrial Machinery and Equipment Manufacturing	5,677	745
Clothing and Soft Good Retailing	7,775	705
Textile Product Manufacturing	1,547	663
Justice	2,055	601
Basic Non-Ferrous Metal Manufacturing	4,846	584
Arts	1,788	571
Air and Space Transport	3,367	570
Recreational Good Retailing	5,983	568
Other Health Services	10,981	568
Site Preparation Services	4,155	540
Personal and Household Goods Hiring	2,009	533
Motor Vehicle Wholesaling	4,615	526
Marine Fishing	1,180	507
Film and Video Services	1,391	506
Electrical Equipment and Appliance Manufacturing	1,877	504
Beverage and Malt Manufacturing	2,384	483
Religious Organisations	2,166	435
Other Wood Product Manufacturing	2,472	396
Coal Mining	881	395
Photographic and Scientific Equipment Manufacturing	992	390
Water Transport	1,190	356
Veterinary Services	1,367	342
Forestry and Logging	1,442	340
Preschool Education	968	332
Parks and Gardens	955	322
TOTAL ALL INDUSTRIES	827,563	66,926

Source: ABS 1996 & 2001 Unpublished Census data

## Occupations with Fastest Employment Growth 1996-2001

	Number employed in 2001	% difference in employment between 1996 & 2001
Registry or Filing Clerks	1,688	136.4
Project and Program Administrators	8,783	97.3
Medical Technical Officers	1,683	92.1
Financial Investment Advisers	1,912	88.2
Other Elementary Service Workers	3,471	79.7
Information Technology Managers	1,489	79.4
Property Professionals	927	78.6
Transport Company Managers	1,204	77.3
Intermediate Inspectors and Examiners	2,586	71.5
Other Miscellaneous Associate Professionals	1,150	65.7
Extra-Systemic Teachers	2,973	62.9
Education Aides	6,244	59.7
Financial Dealers and Brokers	3,711	57.6
Inquiry and Admissions Clerks	5,190	56.2
Fitness Instructors and Related Workers	1,297	55.1
Insurance Clerks	1,653	53.2
Other Intermediate Clerical Workers	2,034	50.7
Miners	4,459	49.5
Designers and Illustrators	2,635	48.0
Computing Professionals	8,471	47.8
Sales and Marketing Managers	7,995	47.5
Other Building and Engineering Associate Professionals	2,348	46.1
Importers, Exporters and Wholesalers	1,186	45.7
Policy and Planning Managers	836	45.6
Accounting Clerks	8,224	43.6
Other Hospitality and Accommodation Managers	727	43.1
Advanced Legal and Related Clerks	1,425	43.1
Other Food Factory Hands	1,210	41.9
Other Miscellaneous Tradespersons and Related Workers	986	41.1
Other Intermediate Machine Operators	856	40.6
Crop Farmers	5,076	40.5
Environmental and Agricultural Science Professionals	2,154	40.4
Other Business and Information Professionals	1,320	40.3
Computing Support Technicians	2,308	39.9
Welfare and Community Workers	2,422	38.6
Other Professionals	1,062	38.1
Marketing and Advertising Professionals	2,894	37.5
Fibrous Plasterers	2,738	36.9
Engineering Managers	1,535	36.7
Personal Care and Nursing Assistants	5,852	35.7
Welfare Associate Professionals	2,366	33.8
Customer Service Managers	2,446	32.8
Office Managers	10,106	32.8
Fast Food Cooks	1,235	32.4
Safety Inspectors	683	32.4
Psychologists	1,113	32.3
Other Intermediate Service Workers	1,931	32.1
Chefs	3,599	31.6
Wall and Floor Tilers and Stonemasons	1,871	30.9
Chemical, Petroleum and Gas Plant Operators	1,097	30.8
General Managers	8,323	30.7
Prison Officers	1,537	30.6
Product Quality Controllers	708	29.9
Sportspersons, Coaches and Related Support Workers	1,928	29.6
Civil Engineers	1,654	29.2
Medical Imaging Professionals	771	29.1
Musicians and Related Professionals	733	28.6
Livestock Farmers	6286	28.4
Restaurant and Catering Managers	4063	28.4
Mechanical, Production and Plant Engineers	1239	28.4
<b>TOTAL ALL OCCUPATIONS</b>	<b>828,781</b>	<b>9.0</b>

Source: ABS 1996 & 2001 Unpublished Census data

## Occupations with Largest Employment Growth 1996-2001

	Number employed in 2001	Difference in employment between 1996 & 2001
Sales Assistants	45,776	9,293
Project and Program Administrators	8,783	4,331
Computing Professionals	8,471	2,739
Sales and Marketing Managers	7,995	2,576
Accounting Clerks	8,224	2,496
Office Managers	10,106	2,495
Storepersons	13,195	2,414
Education Aides	6,244	2,334
Shop Managers	17,278	2,220
Checkout Operators and Cashiers	10,342	2,063
General Managers	8,323	1,957
Accountants	9,896	1,930
Inquiry and Admissions Clerks	5,190	1,868
Primary School Teachers	11,813	1,853
Mixed Crop and Livestock Farmers	9,150	1,689
Personal Care and Nursing Assistants	5,852	1,541
Other Elementary Service Workers	3,471	1,539
Miners	4,459	1,477
Crop Farmers	5,076	1,464
Special Care Workers	6,537	1,444
Livestock Farmers	6,286	1,391
Financial Dealers and Brokers	3,711	1,357
Receptionists	12,772	1,236
Waiters	7,898	1,161
Extra-Systemic Teachers	2,973	1,148
Intermediate Inspectors and Examiners	2,586	1,078
Registry or Filing Clerks	1,688	974
Bookkeepers	8,686	932
Restaurant and Catering Managers	4,063	899
Financial Investment Advisers	1,912	896
Guards and Security Officers	3,438	894
Real Estate Associate Professionals	5,753	875
Chefs	3,599	865
Designers and Illustrators	2,635	855
Secondary School Teachers	9,643	852
Business and Organisation Analysts	3,214	837
Medical Technical Officers	1,683	807
Registered Nurses	12,641	797
Farm Hands	7,008	794
Marketing and Advertising Professionals	2,894	790
Sales Representatives	10,266	784
Other Building and Engineering Associate Professionals	2,348	741
Fibrous Plasterers	2,738	738
Nursery and Garden Labourers	3,979	730
Other Intermediate Clerical Workers	2,034	684
Welfare and Community Workers	2,422	674
Information Technology Managers	1,489	659
Computing Support Technicians	2,308	658
Legal Professionals	3,170	636
Environmental and Agricultural Science Professionals	2,154	620
Customer Service Managers	2,446	604
Welfare Associate Professionals	2,366	598
Human Resource Professionals	4,732	584
Insurance Clerks	1,653	574
Delivery Drivers	5,153	526
Transport Company Managers	1,204	525
General Mechanical Engineering Tradespersons	721	513
Cleaners	20,244	511
Other Miscellaneous Labourers and Related Workers	2,683	508
Hand Packers	3500	506
TOTAL ALL OCCUPATIONS	828,781	68,137

Source: ABS 1996 & 2001 Unpublished Census data