

# OCCUPATIONS (ANZSCO 3 DIGIT LEVEL) RANKED BY AUTOMATION SCORE (2011 CENSUS DATA)

ANZSCO	Occupation	Automation score	VI
253	Medical Practitioners	Least vulnerable 0.5	0
254	Midwifery and Nursing Professionals	0.5	0
252	Health Therapy Professionals	1.2	0
131	Advertising, Public Relations and Sales Managers	1.5	0
134	Education, Health and Welfare Services Managers	2.0	0
263	ICT Network and Support Professionals	2.7	0
262	Database and Systems Administrators, and ICT Security Specialists	3.0	0
241	School Teachers	3.0	0
135	ICT Managers	3.5	0
250	Health Professionals nfd	4.9	0
242	Tertiary Education Teachers	5.3	0
240	Education Professionals nfd	5.5	0
233	Engineering Professionals	6.1	0
271	Legal Professionals	6.3	0
270	Legal, Social and Welfare Professionals nfd	6.4	0
272	Social and Welfare Professionals	6.5	0
260	ICT Professionals nfd	7.7	0
421	Child Carers	8.4	0
223	Human Resource and Training Professionals	9.2	0
249	Miscellaneous Education Professionals	9.8	0
211	Arts Professionals	11.3	0
210	Arts and Media Professionals nfd	14.0	0
111	Chief Executives, General Managers and Legislators	14.0	0
130	Specialist Managers nfd	14.0	0
261	Business and Systems Analysts, and Programmers	14.3	0
230	Design, Engineering, Science and Transport Professionals nfd	14.4	0
200	Professionals nfd	14.5	0
441	Defence Force Members, Fire Fighters and Police	14.8	0
232	Architects, Designers, Planners and Surveyors	14.9	0
391	Hairdressers	15.8	0
142	Retail Managers	16.1	0
452	Sports and Fitness Workers	16.5	0
251	Health Diagnostic and Promotion Professionals	16.6	0
132	Business Administration Managers	16.8	0
141	Accommodation and Hospitality Managers	17.0	0
212	Media Professionals	18.5	0
310	Engineering, ICT and Science Technicians nfd	18.6	0

234	Natural and Physical Science Professionals	19.2	0
139	Miscellaneous Specialist Managers	19.4	0
100	Managers nfd	20.2	0
133	Construction, Distribution and Production Managers	21.0	0
231	Air and Marine Transport Professionals	22.8	0
140	Hospitality, Retail and Service Managers nfd	24.1	0
411	Health and Welfare Support Workers	26.6	0
341	Electricians	27.7	0
225	Sales, Marketing and Public Relations Professionals	28.3	0
300	Technicians and Trades Workers nfd	29.0	0
512	Office and Practice Managers	30.8	0
450	Sports and Personal Service Workers nfd	31.8	0
149	Miscellaneous Hospitality, Retail and Service Managers	32.8	0
222	Financial Brokers and Dealers, and Investment Advisers	33.4	0
511	Contract, Program and Project Administrators	34.7	0
220	Business, Human Resource and Marketing Professionals nfd	35.9	0
440	Protective Service Workers nfd	36.4	0
340	Electrotechnology and Telecommunications Trades Workers nfd	36.8	0
224	Information and Organisation Professionals	38.4	0
342	Electronics and Telecommunications Trades Workers	39.1	0
420	Carers and Aides nfd	39.4	0
451	Personal Service and Travel Workers	39.5	0
334	Plumbers	40.3	0.5
400	Community and Personal Service Workers nfd	41.3	0.5
423	Personal Carers and Assistants	43.0	0.5
121	Farmers and Farm Managers	44.7	0.5
510	Office Managers and Program Administrators nfd	51.6	0.5
313	ICT and Telecommunications Technicians	52.1	0.5
312	Building and Engineering Technicians	55.6	0.5
311	Agricultural, Medical and Science Technicians	55.9	0.5
422	Education Aides	56.0	0.5
361	Animal Attendants and Trainers, and Shearers	59.4	0.5
360	Skilled Animal and Horticultural Workers nfd	59.5	0.5
362	Horticultural Trades Workers	59.5	0.5
321	Automotive Electricians and Mechanics	62.2	0.5
323	Mechanical Engineering Trades Workers	62.9	0.5
393	Textile, Clothing and Footwear Trades Workers	63.3	0.5
811	Cleaners and Laundry Workers	65.6	0.5
841	Farm, Forestry and Garden Workers	66.0	0.5
611	Insurance Agents and Sales Representatives	67.0	0.5
442	Prison and Security Officers	68.9	0.5
639	Miscellaneous Sales Support Workers	69.6	0.5
610	Sales Representatives and Agents nfd	70.2	0.5
891	Freight Handlers and Shelf Fillers	70.4	0.5

390	Other Technicians and Trades Workers nfd	71.7	0.5
320	Automotive and Engineering Trades Workers nfd	71.7	0.5
712	Stationary Plant Operators	72.6	0.5
399	Miscellaneous Technicians and Trades Workers	73.1	0.5
890	Other Labourers nfd	73.1	0.5
630	Sales Support Workers nfd	73.5	0.5
899	Miscellaneous Labourers	73.8	0.5
541	Call or Contact Centre Information Clerks	74.1	0.5
330	Construction Trades Workers nfd	74.7	0.5
800	Labourers nfd	75.6	0.5
324	Panelbeaters, and Vehicle Body Builders, Trimmers and Painters	76.2	0.5
741	Storepersons	76.4	0.5
600	Sales Workers nfd	76.7	0.5
710	Machine and Stationary Plant Operators nfd	77.1	0.5
331	Bricklayers, and Carpenters and Joiners	77.6	0.5
832	Packers and Product Assemblers	77.7	0.5
332	Floor Finishers and Painting Trades Workers	77.9	0.5
733	Truck Drivers	78.4	0.5
351	Food Trades Workers	78.5	0.5
732	Delivery Drivers	78.7	0.5
730	Road and Rail Drivers nfd	78.8	0.5
731	Automobile, Bus and Rail Drivers	78.9	0.5
700	Machinery Operators and Drivers nfd	79.1	0.5
711	Machine Operators	79.4	0.5
591	Logistics Clerks	79.4	0.5
612	Real Estate Sales Agents	79.5	0.5
821	Construction and Mining Labourers	79.7	0.5
540	Inquiry Clerks and Receptionists nfd	79.9	0.5
333	Glaziers, Plasterers and Tilers	80.3	1
831	Food Process Workers	81.9	1
590	Other Clerical and Administrative Workers nfd	82.1	1
500	Clerical and Administrative Workers nfd	82.2	1
392	Printing Trades Workers	82.6	1
599	Miscellaneous Clerical and Administrative Workers	82.8	1
621	Sales Assistants and Salespersons	82.8	1
431	Hospitality Workers	83.4	1
851	Food Preparation Assistants	83.8	1
830	Factory Process Workers nfd	84.9	1
221	Accountants, Auditors and Company Secretaries	85.3	1
322	Fabrication Engineering Trades Workers	85.4	1
721	Mobile Plant Operators	86.3	1
561	Clerical and Office Support Workers	87.6	1
839	Miscellaneous Factory Process Workers	89.6	1
521	Personal Assistants and Secretaries	90.3	1

394	Wood Trades Workers	91.0	1
542	Receptionists	91.6	1
552	Financial and Insurance Clerks	93.5	1
532	Keyboard Operators	95.1	1
550	Numerical Clerks nfd	95.4	1
530	General Clerical Workers nfd	95.6	1
531	General Clerks	96.0	1
631	Checkout Operators and Office Cashiers	96.9	1
551	Accounting Clerks and Bookkeepers	97.3 Most vulnerable	1

Scores derived from Edmonds, D. and Bradley, T. (2015). *Mechanical boon: will automation advance Australia?* Canberra: Department of Industry, Innovation and Science.

Table 4. Occupations (1 digit level) ranked by average automation score (2011 Census data)

<b>Occupation (ANZSCO 1 digit)</b>	<b>Automation score</b>
Professionals	Least vulnerable 14.85388
Managers	17.63166
Community and personal service workers	38.91457
Technicians and trades workers	59.93344
Labourers	76.83014
Sales workers	77.02654
Machinery operators and drivers	78.58042
Clerical and administrative workers	79.99267 Most vulnerable