

Appendix 3

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Skills Shortages in Engineering Occupations

ANZSCO code	Engineering Occupation	2011 DEEWR Rating	Years in Shortage 5 years to 2011	Years in Shortage 10 years to 2011
Professions - Bachelor Degree (AQF 7) and above				
133211	Engineering Manager	Shortage	4	4
233111	Chemical Engineer	Recruitment Difficulty	4	5
233112	Materials Engineer	Not Surveyed by DEEWR	(na)	(na)
233211	Civil Engineer	Shortage	5	9
233212	Geotechnical Engineer	Not Surveyed by DEEWR	(na)	(na)
233213	Quantity Surveyor	Not Surveyed by DEEWR	4	5
233214	Structural Engineer	Shortage	3	3
233215	Transport Engineer	Shortage	2	2
233311	Electrical Engineer	Shortage	5	7
233411	Electronics Engineer	No Shortage	2	3
233511	Industrial Engineer	Not Surveyed by DEEWR	(na)	(na)
233512	Mechanical Engineer	Shortage	4	5
233513	Production or Plant Engineer	Not Surveyed by DEEWR	1	1
233611	Mining Engineer (excluding Petroleum)	Shortage	5	7
233612	Petroleum Engineer	Shortage	4	5
233911	Aeronautical Engineer	Not Surveyed by DEEWR	(na)	(na)
233912	Agricultural Engineer	Not Surveyed by DEEWR	(na)	(na)
233913	Biomedical Engineer	Not Surveyed by DEEWR	(na)	(na)
233914	Engineering Technologist	Not Surveyed by DEEWR	(na)	(na)
233915	Environmental Engineer	Not Surveyed by DEEWR	(na)	(na)
Para-Professional/Associates - Diploma (AQF 5), Adv. Diploma, Ass. Degree (AQF 6)				
3122	Civil Engineering Draftspersons and Technicians	Shortage	4	4
3123	Electrical Engineering Draftspersons and Technicians	No Shortage	4	4
3124	Electronic Engineering Draftspersons and Technicians	Not Surveyed by DEEWR	2	2
3125	Mechanical Engineering Draftspersons and Technicians	Not Surveyed by DEEWR	2	2
3129	Other Building and Engineering Technicians	Not Surveyed by DEEWR	(na)	(na)
Trades* - Certificate III (plus 2 years on-the-job training), Certificate IV				
322111	Blacksmith	Not Surveyed by DEEWR	(na)	(na)
322112	Electroplater	Not Surveyed by DEEWR	(na)	(na)
322113	Farrier	Not Surveyed by DEEWR	(na)	(na)
322114	Metal Casting Trades Worker	Not Surveyed by DEEWR	(na)	(na)
322115	Metal Polisher	Not Surveyed by DEEWR	(na)	(na)
322211	Sheetmetal Trades Worker	Shortage	4	9
322311	Metal Fabricator	No Shortage	3	7
322312	Pressure Welder	Not Surveyed by DEEWR	(na)	(na)
322313	Welder (First Class) (Aus) / Welder (NZ)	Regional Shortage	3	8
323111	Aircraft Maintenance Engineer (Avionics)	Shortage	5	5
323112	Aircraft Maintenance Engineer (Mechanical)	Regional Shortage	5	5
323113	Aircraft Maintenance Engineer (Structures)	Not Surveyed by DEEWR	(na)	(na)
323211	Fitter (General)	Shortage	4	9
323212	Fitter and Turner	Shortage	4	9
323213	Fitter-Welder	Shortage	4	9
323214	Metal Machinist (First Class)	Shortage	4	9
323215	Textile, Clothing and Footwear Mechanic	Not Surveyed by DEEWR	(na)	(na)
323311	Engraver	Not Surveyed by DEEWR	(na)	(na)
323312	Gunsmith	Not Surveyed by DEEWR	(na)	(na)
323313	Locksmith	Shortage	5	6
323314	Precision Instrument Maker and Repairer	Not Surveyed by DEEWR	(na)	(na)
323315	Saw Maker and Repairer	Not Surveyed by DEEWR	(na)	(na)
323316	Watch and Clock Maker and Repairer	Not Surveyed by DEEWR	(na)	(na)
323411	Engineering Patternmaker	Not Surveyed by DEEWR	(na)	(na)
323412	Toolmaker	Shortage	3	8

Source: DEEWR Skills Shortage Research 2001 - 2011

Note: Occupations with employment below 1500 at the 2006 Census are not included in DEEWR research. Occupations above 1500 and deemed low risk with respect to shortages may also be excluded.

*DEEWR ratings for trades are from 2010.