

APPENDIX C

Occupations and Qualifications in Demand Table

Maritime & Ports



ANZSCO code	Occupation	Training Package qualification	Justification/evidence (qualitative and/or quantitative)
231212 – Ship’s Engineer	Marine Engineer	MAR50213 Diploma of Maritime Operations (Engineer Watchkeeper)	While engineer shortages more generally have eased, the industry still reports shortages of Marine Engineers. ¹ The reasons cited include insufficient promotion of career paths from other occupations and competition from more ‘attractive’ industries. This is consistent with the experience across the engineering workforce more broadly. ² It is suggested that the profile and image of the occupation should be raised through appropriate workforce strategies.
		MAR50613 Diploma of Maritime Operations (Marine Engineering Class 3 Near Coastal)	
		MAR60313 Advanced Diploma of Maritime Operations (Marine Engineering Class 1)	
		MAR60113 Advanced Diploma of Maritime Operations (Marine Engineering Class 2)	

<i>ANZSCO code</i>	<i>Occupation</i>	<i>Training Package qualification</i>	<i>Justification/evidence (qualitative and/or quantitative)</i>
	Electro Technical Officers	Under discussion as part of the 2015 continuous improvement program.	The impact of technology on job roles is changing the nature of work and skills required on board ships. The extent to which this is a new role or an extension of existing roles is being investigated. ³
899211 – Deck Hand	Deckhand/ Integrated Ratings (dredging , oil and gas offshore supply vessels)	MAR30113 Certificate III in Maritime Operations (Integrated Rating) MAR40113 Certificate IV in Maritime Operations (Chief Integrated Rating)	Oil and gas offshore facilities have been reported as a growth area experiencing challenges in accessing integrated ratings with the specialised skills they require. ⁴ Integrated Ratings with industry experience in dredging are also in demand. ⁵ Increased activity in capital dredging of ports has arisen from port expansion activities as well as the need to accommodate larger vessels (due to increased trading volumes) in some existing ports. Maintenance dredging to remove accumulated sediments in shipping channels has also been increasing. As the mining and resource sector continues to slow down, the biggest growth driver in resources over the next decade is expected to be in LNG. ⁶ As of mid-2014, there were 62 million tonnes of LNG capacity under construction in Australia. Once built, this is expected to make Australia the world’s largest exporter of LNG by the end of the decade. This expansion in capacity will include new conventional gas projects in western and northern Australia, a floating LNG project, and coal seam gas based LNG projects on the east coast. ^{7 8} The demand for deckhands with experience on offshore oil and gas supply vessels is likely to continue through the medium term with and ongoing discussions throughout the industry regarding the use of 457 visas and offshore recruitment to meet labour demand. ^{9 10}

Maritime endnotes

- 1 TLISC. Maritime Industry E-Scan consultation, October 2014.
- 2 Engineers Australia. *The Engineering Workforce. Response to the Australian Workforce and Productivity Agency Issues Paper*. Available at <https://www.engineersaustralia.org.au/portal/news/engineers-australia%E2%80%99s-submission-australian-workplace-productivity-agency>. March 2014.
- 3,5 TLISC Maritime Advisory Committee Consultation, October 2014.
- 4,10 Stakeholder submission to TLISC 2015 E-Scan development.
- 6 Australian Government’s Department of the Prime Minister and Cabinet. Industry Innovation and Competitiveness Agenda Report: An action plan for a stronger Australia. Available at <https://www.dpmc.gov.au/pmc/publication/industry-innovation-and-competitiveness-agenda-report-action-plan-stronger-australia>. October 2014.
- 7 Bureau of Resources and Energy Economics. *Energy in Australia 2014*. Available from <http://www.industry.gov.au/industry/Office-of-the-Chief-Economist/Publications/Pages/Energy-in-Australia.aspx>. Canberra, November 2014.
- 8 Energy Publications. *AME Offshore secures land for expansion* [webpage]. Available at <http://www.energy-pubs.com.au/blog/ame-offshore-secures-land-for-expansion/>. Accessed February 2015.
- 9 Mining Australia. *The 2015 Energy Outlook: Oil & Gas* [webpage]. Available at <http://www.miningaustralia.com.au/oil-gas/features/the-2015-energy-outlook-oil-gas>. December 2014.