



Australian Government

MAR50213 Diploma of Maritime Operations (Engineer Watchkeeper)

Release 1

MAR50213 Diploma of Maritime Operations (Engineer Watchkeeper)

Modification History

Release 1	This is the first release of this qualification in the MAR13 Maritime Training Package. This qualification replaces TDM50207 Diploma of Transport Distribution (Marine Engineering - Engineer Watchkeeper).
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Description

This qualification is suitable for people who work in the maritime industry as an Engineer Watchkeeper on a seagoing ship powered by main propulsion machinery of any propulsion power in any operating area.

Pathways Information

Pathways into the qualification

MAR40113 Certificate IV in Maritime Operations (Chief Integrated Rating)

MAR50113 Diploma of Maritime Operations (Marine Engineering Class 3)

Pathways from the qualification

MAR60113 Advanced Diploma of Maritime Operations (Marine Engineering Class 2)

Licensing/Regulatory Information

This qualification is currently cited as meeting some of the requirements for certification as an Engineer Watchkeeper by the Australian Maritime Safety Authority (AMSA).

Certification will require achievement of the MAR50213 Diploma of Maritime Operations (Engineer Watchkeeper) and other requirements; people seeking certification should check with AMSA.

Entry Requirements

There are no entry requirements for this qualification.

Employability Skills Summary

The following table contains a summary of the employability skills as identified by the maritime industry for this qualification. This table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that may vary depending on packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	Communicate effectively verbally and in writing Read and interpret written information needed to perform basic marine engineering tasks Use non-verbal communication appropriately when working and communicating with others
Teamwork	Identify difficult situations and negotiate solutions using a collaborative approach Use appropriate strategies to foster the trust and confidence of stakeholders Work safely and collaboratively with others when entering and working in a confined space
Problem-solving	Identify and suggest ways of rectifying faults and malfunctions in control systems on commercial vessels Recognise problems and hazards that can arise when managing safety on a liquefied gas tanker, take appropriate remedial action and initiate appropriate solutions Resolve misunderstandings in written and verbal communication
Initiative and enterprise	Act on becoming aware of a hazardous situation Obtain and use regular feedback to enhance positive relations Report opportunities and recommendations for improvements
Planning and organising	Ensure environmental monitoring and management plans are implemented Identify, collate and process information required to prepare verbal and written reports Monitor the implementation of environmental management plans, policy and procedures, and specified work methods
Self-management	Assess own work outcomes and maintain knowledge of current codes, standards, regulations and industry practices

	Clarify own scope of authority/responsibility for achieving specific environmental outcomes for the vessel and the roles of other key personnel Seek Master's advice when challenges are beyond own scope of technical competence or when input from environmental specialist may be required
Learning	Develop and provide information and training to ensure all crew members understand their environmental obligations/responsibilities Effectively provide feedback, instruction and training on work performance to engine room crew according to vessel procedures and established engineering practice Use environmental management plans and recent incident reports to identify training needs of crew members
Technology	Use a calculator to resolve marine engineering problems Use atmospheric detection equipment and interpret the readings Use computer and relevant equipment to enter, access and retrieve engineering information

Packaging Rules

Total number of units = 17 units

17 core units

Core units			
Field			
A	Handling Cargo and Vessel Stability	MARA3001A	Contribute to safe cargo operations on liquefied gas tankers
		MARA3002A	Contribute to safe cargo operations on oil and chemical tankers

E	Communication	MARE5001A	Communicate effectively when performing engineering duties
F	Operational Quality and Safety	MARF3007A	Work safely in confined spaces on a vessel
J	Environment	MARJ5001A	Ensure compliance with environmental management legislation
L	Marine Engineering	MARL5001A	Apply basic principles of marine electrotechnology
		MARL5002A	Apply basic principles of marine engineering thermodynamics
		MARL5003A	Apply basic principles of marine mechanics
		MARL5004A	Apply basic principles of naval architecture
		MARL5005A	Demonstrate basic knowledge of marine auxiliary boilers
		MARL5006A	Demonstrate basic knowledge of marine auxiliary machinery and systems
		MARL5007A	Demonstrate basic knowledge of marine control systems and automation
		MARL5008A	Demonstrate basic knowledge of marine diesel engines and systems
		MARL5009A	Demonstrate basic knowledge of marine electrical systems
		MARL5010A	Demonstrate basic knowledge of marine steam turbines and main boilers
		MARL5011A	Demonstrate basic knowledge of ships and ship routines
		MARL5012A	Perform basic marine engineering calculations

Custom Content Section

Not applicable.