



**Australian Government**

# **MAR40213 Certificate IV in Maritime Operations (Marine Engine Driver Grade 1)**

**Release 1**

# MAR40213 Certificate IV in Maritime Operations (Marine Engine Driver Grade 1)

## Modification History

Release 1	<p>This is the first release of this qualification in the MAR13 Maritime Training Package.</p> <p>This qualification replaces TDM40207 Certificate IV in Transport Distribution (Marine Engine Driving - Grade 1).</p>
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## Description

This qualification is suitable for people who work in the maritime industry in charge of operating vessels with a propulsion power up to 1500 kW.

## Pathways Information

### Pathways into the qualification

MAR30213 Certificate III in Maritime Operations (Marine Engine Driver Grade 2)

### Pathways from the qualification

MAR50113 Diploma of Maritime Operations (Marine Engineering Class 3)

## Licensing/Regulatory Information

This qualification is currently cited as meeting some of the requirements for certification as a Marine Engine Driver Grade 1 as described in Part D of the National Standard for Commercial Vessels (NSCV) by the Australian Maritime Safety Authority (AMSA). Certification will require achievement of the MAR40213 Certificate IV in Maritime Operations (Marine Engine Driver Grade 1) 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	Complete required records Effectively communicate maintenance schedules and procedures to the team Read and interpret work specifications and drawings
Teamwork	Counsel team members and provide feedback Supervise maintenance tasks Work safely and collaboratively with others when carrying out basic welding, brazing, cutting and machining operations on a vessel
Problem-solving	Apply problem solving skills to investigate and identify causes of WHS/OHS incidents Deal effectively with issues, problems and conflict Negotiate effectively
Initiative and enterprise	Identify risks to self, others and the environment according to organisational procedures Prepare contingency plans Recognise faulty equipment and take appropriate action
Planning and organising	Implement recommendations to improve maintenance plan safety, efficiency and effectiveness under regular review of safety management system Manage contingencies to ensure quality of work is maintained and work is completed within agreed timeframe Monitor, adjust and report on implementation of maintenance plan
Self-management	Display sound personnel management Lead team members Monitor personal behaviour to ensure it is consistent with environmental management procedures

Learning	Participate in training, musters and emergency drills Practise survival techniques Provide mentoring and coaching to support individuals/crew to implement procedures to support environmental management
Technology	Operate auxiliary machinery systems Operate radio equipment Select and use technology appropriate to a task

## Packaging Rules

**Total number of units = 27 units**

27 core units

<b>Core units</b>			
<b>Field</b>			
<b>A</b>	<b>Handling Cargo and Vessel Stability</b>	MARA4002A	Manage vessel stability
<b>B</b>	<b>Equipment Checking and Maintenance</b>	MARB3007A	Undertake basic maintenance of electrical systems
		MARB4001A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel
		MARB4003A	Manage refuelling
		MARB4006A	Undertake maintenance of 240 to 440 voltage alternating current electrical systems
		MARB4007A	Undertake maintenance of machinery, machinery systems and structural components
<b>C</b>	<b>Equipment Operations</b>	MARC2001A	Complete engine room tasks
		MARC2002A	Maintain hull out of water
		MARC2003A	Operate and maintain extra low and low voltage electrical systems and equipment
		MARC2004A	Operate deck machinery
		MARC2007A	Operate marine internal combustion engines,

			and propulsion and auxiliary systems
		MARC3001A	Manage fuel systems
		MARC3005A	Operate and monitor marine internal combustion engines, propulsion plant and auxiliary systems
		MARC3007A	Operate electrical systems
		MARC4003A	Operate auxiliary machinery systems up to 1500 kW
		MARC4005A	Operate marine internal combustion engines and associated systems up to 1500 kW
		MARC4006A	Operate propulsion transmission systems up to 1500 kW
		MARC4007A	Operate 240 to 440 voltage alternating current electrical systems
<b>F</b>	<b>Operational Quality and Safety</b>	MARF1001A	Apply basic survival skills in the event of vessel abandonment
		MARF1002A	Follow procedures to minimise and fight fires on board a vessel
		MARF1005A	Meet work health and safety requirements
		MARF1006A	Survive at sea using survival craft
<b>G</b>	<b>Teamwork</b>	MARG4002A	Manage an engine room and small engineering team
<b>J</b>	<b>Environment</b>	MARJ2001A	Follow environmental work practices
		MARJ3001A	Monitor environmental management on a vessel
<b>L</b>	<b>Marine Engineering</b>	MARL4001A	Carry out engineering calculations
	<b>Imported</b>	BSBWOR203B	Work effectively with others

## **Custom Content Section**

Not applicable.