



Australian Government

Department of Education, Employment and Workplace Relations

TDM50407 DIPLOMA OF TRANSPORT & DISTRIBUTION (COASTAL MARINE ENGINEERING - ENGINEER CLASS 3)

Release: 1

TDM50407 DIPLOMA OF TRANSPORT DISTRIBUTION (COASTAL MARINE ENGINEERING - ENGINEER CLASS 3)

Modification History

Not applicable.

Description

Rationale: A qualification aligned to the educational requirements for certification as a Marine Engine Driver Grade 3 as described in Part D of the National Standard for Commercial Vessels (NSCV).

Successful completion will require competency in units that relate to work defined as characteristics of AQF Certificate 5:

'The self-directed application of knowledge and skills, with substantial depth in some areas where judgement is required in planning and selecting appropriate equipment, services and techniques for self and others. Applications involve participation in development of strategic initiatives, as well as personal responsibility and autonomy in performing complex technical operations or organising others. It may include participation in teams including teams concerned with planning and evaluation functions. Group or team coordination and management may be involved'.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

Not applicable.

Packaging Rules

Requirements for completion of the qualification:

A successful outcome of the **nineteen** units of competency listed below.

Additional units from those listed below or relevant units from this or other Training Packages ^{Note 4} may be included in the qualification to satisfy specific additional needs beyond the minimum requirements. (They may also be achieved separately, either individually or in skill sets, leading to a National Statement of Attainment as described elsewhere in the Training Package)

MANDATORY REQUIREMENTS FIELD		UNIT	
B	Equipment Checking and Maintenance	TDMMB3707B	Fabricate simple shipboard components
		TDMMB3807B	Dismantle, inspect, repair and reassemble vessel machinery
E	Communication	TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel ^{Note 1}
F	Operational Quality and Safety	TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems
		TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel
		TDMMF1007B	Provide elementary first aid

		TDMMF1107B	Survive at sea in the event of vessel abandonment
		TDMMF1907B	Operate survival craft and other lifesaving appliances
		TDMMF3807B	Establish engine room watchkeeping procedures on vessels of less than 3,000 kW propulsion power
		TDMMF5407A	Observe safety and emergency procedures on a coastal vessel <small>Note 2</small>
		TDMMF5507A	Fight and extinguish fires on board a coastal vessel <small>Note 3</small>
		TDMMF6107A	Manage marine firefighting and prevention activities on board a vessel
R	Carry Out Operations on Equipment and Systems	TDMMR1907B	Safety handle and stow explosive and flammable materials
		TDMMR207B	Use and maintain deck equipment and machinery
		TDMMR2107B	Operate and maintain engines, machinery and auxiliary power sources on vessels of less than 3,000 kW

			propulsion power
R	Carry Out Operations on Equipment and Systems (continued)	TDMMR2207B	Operate and maintain boiler systems
		TDMMR2307B	Operate and maintain batteries, starter motors and power distribution systems
		TDMMR5407B	Carry out refuelling and fuel transfer operations
U	Environment	TDMMU407B	Ensure compliance with pollution prevention measures

An Engineer Class 3 **must also be able to demonstrate** competency in the six basic engineering units listed below, either through completion of the appropriate engineering trade qualifications or additional training and assessment, if required:

MEM18001C	Use hand tools	MEM05006B	Perform brazing and/or silver soldering
MEM18002B	Use power tools/hand held operations	MEM05007C	Perform manual heating and thermal cutting
MEM05004C	Perform routine oxy acetylene welding	MEM05015C	Weld using manual metal arc welding process

Note 1: TDMME1107A is a **new unit** incorporating the requirements of the previous two units TDMME101A Understand orders and be understood in relation to shipboard duties and TDMML201A Contribute to effective human relationships on board a vessel (as they apply to coastal vessel operations).

Note 2: TDMMF5407A is a **new unit** incorporating the requirements of the previous two units TDMMF701B Observe safe working practices and TDMMF801B Comply with emergency procedures (as they apply to coastal vessel operations).

Note 3: TDMMF5507A is a **new unit** incorporating the requirements of the previous two units TDMMF5302A Fight and extinguish fires on board a commercial vessel and TDMMF1201A Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire (as they apply to coastal vessel operations).

OPTIONAL ADDITIONAL UNITS TO MINIMUM REQUIREMENTS

The units listed below or relevant units from this or other Training Packages ^{Note 4} may be included in the qualification to satisfy specific additional needs beyond the minimum mandatory requirements.

F	Operational Quality and Safety	TDMMF1807 B	Apply medical first aid on board a vessel
		Observe personal safety and social responsibilities ^{Note 5}	
		Work safely in enclosed spaces on a vessel	
		Prevent, control and fight fires on board an ocean-going vessel ^{Note 6}	
U	Environment	TDMMU107 B	Monitor compliance with legislative requirements and measures to ensure protection of the environment
O	Security	TDMMO107 A	Follow maritime security procedures

Optional imported units from the Business Services Training Package BSB01	BSBFLM505 B	Manage operational plan
	Manage workplace information systems	
	Facilitate continuous improvement	
	Facilitate and capitalise on change and innovation	
	Ensure team effectiveness	
	Manage effective workplace relationships	
Optional imported units from the Training and Assessment Training Package TAA04	TAACMQ501 A	Develop training and/or assessment organisational policies and procedures
	Assess competence	
	Contribute to assessment	

Note 4: Where units of competency are included from another Training Package, Registered Training Organisations should check the National Training Information System (NTIS) or contact the Industry Skills Council responsible for the Training Package to check if the unit has any pre-requisite or co-requisite requirements.

Note 5: TDMMF5607A is a **new ocean-going unit** incorporating the requirements of the previous four units TDMMF701B Observe safe working practices, TDMMF801B Comply with emergency procedures, TDMML201A Contribute to effective human relationships on board a vessel and TDMME101A Understand orders and be understood in relation to shipboard duties.

Note 6: TDMMF6207A is a **new ocean-going unit** incorporating the requirements of the previous two units TDMMF901A Fight and extinguish fires and TDMMF1201A Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire.