



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **TDM30407 CERTIFICATE III IN TRANSPORT & DISTRIBUTION (COASTAL MARITIME OPERATIONS - MASTER CLASS 5)**

**Release: 1**

## **TDM30407 CERTIFICATE III IN TRANSPORT DISTRIBUTION (COASTAL MARITIME OPERATIONS - MASTER CLASS 5)**

### **Modification History**

Not applicable.

### **Description**

**Rationale:** A qualification aligned to the educational requirements for certification as a Master Class 5 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 3:

*'Performance of a defined range of skilled operations, usually within a range of broader related activities involving known routines, methods and procedures, where some discretion and judgement is required in the selection of equipment, services or contingency measures and within known time constraints. Applications may involve some responsibility for others. Participation in teams including group or team coordination may be involved'.*

### **Pathways Information**

Not applicable.

### **Licensing/Regulatory Information**

Not applicable.

### **Entry Requirements**

Not applicable.

## Employability Skills Summary

### Employability Skills Summary for TDM30407 Certificate III in Transport & Distribution (Coastal Maritime Operations - Master Class 5)

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:
<b>Communication</b>	<ul style="list-style-type: none"><li>• Use vessel's communication systems and procedures</li><li>• Listen to and interpret verbal information related to watchkeeping functions and the operation and maintenance of the vessel</li><li>• Read and interpret marine regulations, charts and drawings, equipment readings and displays, vessel's safety management system, vessel and equipment manufacturer's instructions, etc.</li><li>• Speak clearly and directly on diverse matters related to bridge watchkeeping functions and vessel operation and maintenance</li><li>• Write documents as part of watchkeeping duties, including reports on vessel operations, incident reports, entries in records, etc.</li><li>• Negotiate issues with others in the course of vessel operations</li><li>• Recognise and interpret non-verbal signs, signals and behaviour</li><li>• Interpret and record observations and equipment readings and displays</li><li>• Use a small vessel's radio equipment</li></ul>
<b>Teamwork</b>	<ul style="list-style-type: none"><li>• Provide leadership to the personnel on the vessel</li><li>• Resolve any interpersonal conflicts that may arise on board the vessel</li><li>• Motivate other crew members</li><li>• Assist crew members to achieve and maintain competency</li><li>• Avoid and prevent the harassment of others on the vessel</li><li>• Collaborate with crew members in the course of vessel operations</li><li>• Work with crew members of different ages, genders, race, religion, political persuasion, etc.</li></ul>

<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
<b>Problem solving</b>	<ul style="list-style-type: none"> <li>• Identify and solve or report problems arising in the course of vessel operations</li> <li>• Monitor and anticipate problems that may occur in the course of vessel operations including hazards and risks and take appropriate action (e.g. avoidance of collision, avoidance of navigation hazards, avoidance of environmental pollution, etc.)</li> <li>• Manage hazards and risks in a range of operational situations, (e.g. collision avoidance, navigation hazards, heavy weather and seas, etc.)</li> <li>• Use mathematics to solve problems such as various calculations related to navigation, basic stability and other operational duties and functions within the limits of responsibility of a Master 5 or Skipper 3</li> </ul>
<b>Initiative and enterprise</b>	<ul style="list-style-type: none"> <li>• Modify activities dependent on differing work situations and contingencies such as changes in the weather and sea conditions, changes in operational performance of bridge equipment and navigational emergencies</li> <li>• Take appropriate initiatives in a range of situations such as those above</li> <li>• Respond appropriately to any changes in equipment, standard operating procedures and the vessel's working environment</li> </ul>
<b>Planning and organising</b>	<ul style="list-style-type: none"> <li>• Follow and apply operational and emergency plans, systems and procedures for the vessel, including the vessel's safety management system and emergency procedures</li> <li>• Monitor systems and procedures for compliance with regulations and codes of practice</li> <li>• Monitor and evaluate operational performance and compliance</li> <li>• Collect, manage and interpret information needed in the course of vessel operations</li> <li>• Organise and plan own management activities as a Master Class 5 or Skipper Grade 3 on a vessel</li> <li>• Manage time and priorities in the course of operational activities</li> </ul>
<b>Self-management</b>	<ul style="list-style-type: none"> <li>• Interpret and apply regulations, survey requirements, standard procedures and codes of practice as they apply to vessel operations, including collision avoidance, OH&amp;S, environmental protection, security and SOLAS requirements</li> </ul>

<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
	<ul style="list-style-type: none"> <li>• Establish and follow own work plans and schedules</li> <li>• Evaluate and monitor own work and management performance as Master Class 5 or Skipper Grade 3 on a vessel</li> </ul>
<b>Learning</b>	<ul style="list-style-type: none"> <li>• Contribute to learning and assessment activities on the vessel, including any emergency drills, safety and security awareness training, and ongoing development of competency of crew</li> <li>• Assist crew members to adapt to any changes in the vessel's systems, equipment, procedures and the vessel's operating environment (e.g. sea and weather conditions)</li> <li>• Assist in the instruction, coaching or mentoring of other crew members on the vessel</li> <li>• Contribute to the assessment of the competency of other crew members</li> <li>• Assist in the creation of a learning environment on board the vessel</li> <li>• Adapt own competency to any changes in the vessel type, its equipment and its operating environment</li> <li>• Update own knowledge and skills required for operational activities</li> </ul>
<b>Technology</b>	<ul style="list-style-type: none"> <li>• Operate plant and equipment on a vessel of less than 24 m in length including propulsion system, steering and navigation systems, radar and other electronic navigational aids, radio systems, safety management equipment, etc.</li> <li>• Follow and apply operational and maintenance systems for the vessel's hull, propulsion, electrical and auxiliary systems, safety and deck equipment and other facilities on the vessel</li> <li>• Follow and apply safety management system and OH&amp;S procedures for use and maintenance of equipment and facilities</li> </ul>

## Packaging Rules

### Requirements for completion of the qualification:

A successful outcome of the **twenty-two** units of competency listed below.  
Additional units from those listed below or relevant units from this or other Training Packages <sup>Note 5</sup> 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)  
(See Note 1 below indicating that unit TDMME1006A may be substituted for TDMME501B where only proficiency in VHF radio operation is required).

MANDATORY REQUIREMENTS FIELD		UNIT	
A	<b>Handling Cargo and Vessel Stability</b>	TDMMA1107B	Maintain the stability of a vessel using basic stability information
		TDMMB707B	Slip vessel and maintain hull
		TDMMB4507A	Monitor condition and seaworthiness of a small vessel up to 24 metres
		TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel less than 80 metres
C	<b>Manoeuvre Vessel</b>	TDMMC807B	Manoeuvre a vessel within the limits of responsibility of a Master 5
E	<b>Communication</b>	TDMME507B	Transmit and receive information by marine radio or telephone <sup>Note 1</sup>
		TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel <sup>Note 2</sup>
F	<b>Operational Quality and Safety</b>	TDMMF1007B	Provide elementary first aid
		TDMMF1107B	Survive at sea in the event of vessel abandonment
		TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel
		TDMMF470	Contribute to maintaining a safe watch on a domestic

		7B	vessel
		TDMMF540 7A	Observe safety and emergency procedures on a coastal vessel <small>Note 3</small>
		TDMMF550 7A	Fight and extinguish fires on board a coastal vessel <small>Note 4</small>
<b>H</b>	<b>Navigation</b>	TDMMH807 B	Plan and navigate an offshore passage within the limits of responsibility of a Master 5
		TDMMH110 7B	Use radar and other electronic navigational aids to maintain safe navigation within the limits of responsibility of a Master 5
		TDMMH130 7B	Apply weather information when navigating a small vessel within the limits of responsibility of a Master 5
<b>R</b>	<b>Carry Out Operations on Equipment and Systems</b>	TDMMR107 B	Operate and maintain steering gear arrangements
		TDMMR307 B	Operate fuel, fresh and sea water, bilge and fire pumping systems installed in a vessel
		TDMMR180 7B	Operate deck machinery installed on a small vessel of less than 750 kW propulsion power
		TDMMR540 7B	Carry out refuelling and fuel transfer operations
		TDMMR550 7B	Perform seamanship, rigging and lifting operations on board a small domestic vessel
<b>U</b>	<b>Environment</b>	TDMMU507 B	Ensure compliance with environmental considerations in a small domestic vessel

**Note 1:** Where students are likely to **only operate** VHF equipment and are specifically preparing for their AMSA VHF radio operator's certificate, TDMME1007A Transmit and receive information by marine VHF radio or telephone may be selected in place of TDMME507B Transmit and receive information by marine radio or telephone.

**Note 2:** 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 3:** TDMMF5407A is a **new unit** incorporating the requirements of the previous two units TDMMF701B Observe safe working practices and TDMMF801B Comply with emergency procedures.

**Note 4:** 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.

#### OPTIONAL ADDITIONAL UNITS TO MINIMUM REQUIREMENTS

The units listed below or relevant units from this or other Training Packages <sup>Note 5</sup> may be included in the qualification to satisfy specific additional needs beyond the minimum mandatory requirements.

<b>A</b>	<b>Handling Cargo and Vessel Stability</b>	TDMMA9017	Prepare a cargo plan for cargo loading and unloading operations within the limits of responsibility of a Master 4
<b>E</b>	<b>Communication</b>	TDMME807C	Transmit and receive information by GMDSS subsystems and equipment on a vessel
<b>F</b>	<b>Operational Quality and Safety</b>	TDMMF1807B	Apply medical first aid on board a vessel
		Operate survival craft and other lifesaving appliances	
<b>H</b>	<b>Navigation</b>	TDMMH307B	Manage safe navigation through the use of radar and other navigational aids
<b>O</b>	<b>Security</b>	TDMMO107A	Follow maritime security procedures
<b>U</b>	<b>Environment</b>	TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment

<b>Optional imported units from the Training and Assessment Training Package TAA04</b>	TAADEL307A	Provide training through instruction and demonstration of work skills
	Contribute to assessment	
<b>Optional imported units from the Business Services Training Package BSB01</b>	BSBFLM407B	Implement continuous improvement
	Provide workplace information and resourcing plans	
	Manage quality customer service	



<b>Optional imported units from the Hospitality Training Package THH02</b>	THHBKA07 B	Clean and maintain kitchen premises
		Organise and prepare food
		Prepare sandwiches
		Plan, prepare and display a buffet

**Note 5:** 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.