

**MARITIME
TRAINING PACKAGE**

TDM07

PURCHASING GUIDE

**Western Australian Department of Education and
Training**

October 2007

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Foreword

This Purchasing Guide has been generated to enable the stakeholders in the Maritime Industry in Western Australia to participate in the managed implementation of the National Maritime Training Package TDM07.

Information within this Guide should provide guidance on how competency standards may be selected and applied to achieve suitable outcomes and qualifications, for and within an industry.

The Maritime Training Package TDM07 was endorsed by Ministers for vocational education and training on June 2007.

Introduction

This Guide provides information that will facilitate the implementation of the Maritime Training Package TDM07 in Western Australia. This Guide is designed to aid Registered Training Organisations (RTOs) to convert from Training Package qualifications to the revised Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the **endorsed components** of the Maritime Training Package TDM07.

The Guide provides information on:

- Transition arrangements
- Licensing requirements
- Advice on Employability Skills
- Funding
- A mapping of current publicly funded qualifications to the revised Training Package qualifications
- An allocation of nominal hours to units of competency and total hours for qualifications
- A mapping of current Traineeship and Apprenticeship courses to new qualifications
- A set of appropriate sample, or model, training programs at each AQF level

Obtaining the Training Package

The [Industry Name] Training Package can be purchased from:

Australian Training Products

Level 25

150 Lonsdale Street

Melbourne VIC 3000

Telephone: (03) 9655 0600

Facsimile: (03) 9639 4684

Email: sales@atpl.net.au

Web: www.atpl.net.au

Information on National Training Packages is also available through the National Training Information Service (NTIS), which can be located on the Internet at: www.ntis.gov.au

All RTOs who have Training Package qualifications on their Scope of Delivery must obtain a copy of the relevant Training Package.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of endorsement of the Training Package by the National Training Quality Council (NTQC). A current accredited course, however, may be used until its accreditation expires.

An Amendment to Scope will be necessary where the industry area is not within scope. The Training Accreditation Council (TAC) will need to be advised of any new qualifications from the Training Package being delivered.

Transition to New Qualifications

Students currently enrolled in a Maritime Training Package TDM01 qualification should be permitted to complete the program they enrolled in initially, unless the move to the related qualification from a Maritime Training Package TDM07 can be made without disadvantage to a student.

Funding

Some learners may only achieve a Statement of Attainment during their enrolment period with the RTO. Separate funding is not provided to assess the learner who has left his/her studies and then, at a later date, wants to complete an integrated assessment to achieve a certificate qualification. The RTO will be required to make special arrangements to issue the final qualification. This process may involve an invitation to the employer (if applicable) to participate in the assessment in the workplace.

Nominal Duration of Qualifications

The maximum nominal hours are identified for each Training Package qualification. Nominal hours may vary within a qualification depending on the units of competency selected and the delivery strategies used; however, training delivery will not be funded beyond the maximum nominal hours indicated. Nominal hours are for structured training only and include both delivery and assessment.

Definition of nominal hours (supervised)

The hours of supervised learning or training deemed necessary to cover the educational material in a training program when undertaken in standard classroom delivery mode. (*Source: A Glossary of Australian Vocational Education and Training Terms*).

Licensing Requirements

Regulatory requirements for occupations in the Australian Maritime Industry for the purposes of the Maritime Training Package can be divided into two categories: Coastal Operations and Ocean-going Operations.

Coastal Operations refers to all domestic marine operations falling under the jurisdiction of the relevant State and Territory marine authorities and covers the occupations defined within the National Standard for Commercial Vessels (NSCV) Part D 'Crew Competencies'. This includes the following specific marine occupations:

- Coxswain
- Marine Engine Driver Grade 3
- Master Class 5 and Skipper Grade 3
- Marine Engine Driver Grade 2
- Master Class 4 and Skipper Grade 2
- Marine Engine Driver Grade 1
- Engineer Class 3
- Master Class 3 and Skipper Grade 1

Ocean-going Operations refers to all international maritime operations and related occupations covered by and defined within Marine Orders – Part 3, Section 6 under the Navigation Act (1912). This includes the following specific marine occupations:

- Integrated Rating
- Watchkeeper (Deck)
- Master (< 500 GT)
- Engineer Watchkeeper
- Master (Unlimited)
- Master (< 3,000 GT)
- Chief Mate (Unlimited)
- Chief Mate (< 3,000 GT)
- Engineer Class 1
- Engineer Class 2

Information on the occupations and related certification requirements within the Coastal and Ocean-going sectors of the Maritime Industry in Australia can be obtained by contacting the relevant State and Territory Marine Authority and the National Marine Safety Committee (NMSC) (in the case of Coastal Operations) and the Australian Maritime Safety Authority (AMSA) (in the case of Ocean-going Maritime Operations). Website and contact details for the various marine authorities are provided in the table below.

Organisation	Website	Telephone
Australian Maritime Safety Authority (AMSA)	http://www.amsa.gov.au	(02) 6279 5000
National Marine Safety Committee (NMSC)	http://www.nmsc.gov.au	(02) 9247 2124
NSW Maritime	http://www.maritime.nsw.gov.au	(02) 9563 8511
Marine Safety Victoria (MSV)	http://www.marinesafety.vic.gov.au	(03) 9655 3399
Maritime Safety Queensland (MSQ)	http://www.msq.qld.gov.au	(07) 3120 7462
Marine and Safety Tasmania (MAST)	http://www.mast.tas.gov.au	(03) 6233 8801

WA Department for Planning and Infrastructure (Marine Safety Section)	http://www.dpi.wa.gov.au/imarine	(08) 9264 7777
NT Department of Planning and Infrastructure (Marine Safety Section)	http://www.ipe.nt.gov.au/whatwedo/marinesafety/index.html	(08) 8999 5285
Transport SA (Marine Safety Section)	http://www.marine.transport.sa.gov.au/index.asp	(08) 8343 2222

Two key reference documents that provide information on certification requirements for various maritime occupations are:

- National Standard for Commercial Vessels (NSCV) Part D 'Crew Competencies' (downloadable from the NMSC website)
- Marine Orders Part 3 'Seagoing Qualifications' (Issue 6) under the Navigation Act (downloadable from the AMSA website).

Employability Skills

What are the employability skills?

Employability skills are non-technical skills and competencies which have always been an important part of an individual's effective and successful participation in the workplace. Their explicit inclusion in Training Packages represents the progression of competency based training into a system which develops the full range of transferable skills, attitudes and behaviour required for successful participation in the workplace.

Employability skills have been developed from a business and industry need for a broader range of skills beyond the Mayer Key Competencies that were developed in 1992. The 2002 report, *Employability Skills for the Future*, published by the Business Council of Australia and the Australian Chamber of Commerce and Industry, outlined an 'Employability Skills Framework' which identifies eight employability skills. They are:

- **communication skills**, which contribute to productive and harmonious relations between employees and customers
- **teamwork skills**, which contribute to productive working relationships and outcomes
- **problem-solving skills**, which contribute to productive outcomes
- **initiative and enterprise skills**, which contribute to innovative outcomes
- **planning and organising skills**, which contribute to long-term and short-term strategic planning
- **self-management skills**, which contribute to employee satisfaction and growth
- **learning skills**, which contribute to ongoing improvement and expansion in employee and company operations and outcomes
- **technology skills**, which contribute to effective execution of tasks.

The Employability Skills Framework

The Employability Skills Framework details the employability skills and the elements, or facets, of those skills that employers identified as important. Facets are examples of skills and behaviour which contribute to the overall application of each particular employability skill. The nature, emphasis and context of these facets vary across industries.

Employability skills and Training Packages

The National Quality Council endorsed the approach to explicitly embed the applicable employability skills into each individual unit of competency. In 2005 and 2006 specifically developed tools were used by Industry Skills Councils to review and embed employability skills into Training Package qualifications.

In many cases the skills and knowledge identified by the Employability Skills Framework already existed in Training Packages. Industry Skills Councils reviewed each Training Package and, where gaps existed or changes were required, modified the competency standards. For some Training Packages, the Framework was further modified to capture industry specific requirements. These requirements were then mapped to existing Training Packages and embedded and strengthened in units of competency.

Employability skills are said to be explicitly embedded when units of competency are written in a manner which makes the relationships between employability skills and the other performance requirements clear and readily identifiable.

Employability skills summary

Once the units of competency in a qualification have been mapped against the Framework, an Employability Skills Summary is created for every qualification in a Training Package. Summaries broadly identify the application of each employability skill in the context of the job role(s) covered by the qualification. They are designed to assist in identifying and including relevant industry applications of the employability skills into learning and assessment strategies.

Reporting employability skills

The National Quality Council Working Group on Employability Skills has agreed to a draft model for reporting employability skills. The draft model is yet to be presented to the National Quality Council for endorsement.

The Working Group recommends that:

- employability skills summaries will be available for downloading from a central internet repository (yet to be determined while NTIS 3 is under development)
- a brief statement with a URL to a user-friendly repository of employability skills summaries, from where the relevant summary can be downloaded to be printed on each qualification
- learners use the URL to download the relevant employability skills summary for their qualification
- RTOs will include generic text and the URL on all qualification testamurs.

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the TDM07 Training Package Maritime Training Package

National ID	Training Package Qualification Title	Maximum Nominal Hours
TDM10107	Certificate I in Transport and Distribution (Maritime Operations)	76
TDM10207	Certificate I in Transport and Distribution (Maritime Operations - Shore-based Linesperson)	132
TDM20107	Certificate II in Transport and Distribution (Maritime Operations)	210
TDM20207	Certificate II in Transport and Distribution (Marine Engine Driving - Grade 3)	170
TDM20307	Certificate II in Transport and Distribution (Coastal Maritime Operations - Coxswain)	199
TDM30107	Certificate III in Transport and Distribution (Maritime Operations)	450
TDM30207	Certificate III in Transport and Distribution (Marine Engine Driving - Grade 2)	241
TDM30307	Certificate III in Transport and Distribution (Maritime Operations - Integrated Rating)	573
TDM30407	Certificate III in Transport and Distribution (Coastal Maritime Operations - Master Class 5)	269
TDM40107	Certificate IV in Transport and Distribution (Maritime Operations)	665
TDM40207	Certificate IV in Transport and Distribution (Marine Engine Driving - Grade 1)	403
TDM40307	Certificate IV in Transport and Distribution (Coastal Maritime Operations - Master Class 4)	402
TDM50107	Diploma of Transport and Distribution (Maritime Operations)	825
TDM50207	Diploma of Transport and Distribution (Marine Engineering - Engineer Watchkeeper)	1019
TDM50307	Diploma of Transport and Distribution (Maritime Operations - Deck Watchkeeper)	984
TDM50407	Diploma of Transport and Distribution (Coastal Marine Engineering - Engineer Class 3)	458
TDM50507	Diploma of Transport and Distribution (Coastal Maritime Operations - Master Class 3)	1091
TDM60107	Advanced Diploma of Transport and Distribution (Maritime Operations)	1476
TDM60207	Advanced Diploma of Transport and Distribution (Marine Engineering Class 1)	1150
TDM60307	Advanced Diploma of Transport and Distribution (Marine Engineering Class 2)	1096
TDM60407	Advanced Diploma of Transport and Distribution (Maritime Operations - Master Unlimited)	1391

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the industry Maritime Training Package TDM07

National ID	Training Package Unit Title	Maximum Nominal Hours
TDMMA1007B	Control trim, stability and stress	120
TDMMA107B	Plan and ensure safe loading, stowage, security and unloading of cargo	50
TDMMA1107B	Maintain the stability of a vessel using basic stability information	12
TDMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	21
TDMMA1607B	Manage loading and embarkation procedures on roll-on roll-off vessels	30
TDMMA1707A	Determine the stability and trim of the vessel	70
TDMMA207B	Plan and ensure safe care of cargo during the voyage	20
TDMMA307B	Plan and monitor the carriage of dangerous cargoes	20
TDMMA407B	Manage procedures for the handling, loading and discharging of liquefied gas cargoes	40
TDMMA507B	Manage procedures for the handling, loading and discharging of chemical cargoes	40
TDMMA607B	Manage procedures for the handling, loading and discharging of oil cargoes	40
TDMMA707B	Monitor the loading, stowage, security and unloading of cargo	28
TDMMA807B	Monitor the care of cargo during a voyage	7
TDMMA907B	Prepare a cargo plan for cargo loading and unloading operations within limits of responsibility of a Master 4	12
TDMMB107C	Perform routine remedial, preventative and survey deck maintenance on a vessel	35
TDMMB1207B	Fault-find, dismantle, maintain and repair shipboard plant and equipment	95
TDMMB1307B	Carry out shipboard fabrication and repair operations	96
TDMMB1507B	Detect and identify the cause of machinery malfunctions and repair faults on vessels over 750 kW propulsion power	70
TDMMB1607B	Organise safe maintenance and repair procedures on vessels of over 750 kW of propulsion power	57
TDMMB1907B	Carry out basic hull servicing	9
TDMMB2007B	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	90
TDMMB2907B	Recognise and correct deteriorated fittings and machinery	9
TDMMB3107B	Organise maintenance and repairs on a small vessel	40
TDMMB3507B	Employ damage control techniques for hull damage	6
TDMMB3607B	Prepare a small vessel's machinery for sea within the limits of responsibility of a Marine Engine Driver Grade 3	12
TDMMB3707B	Fabricate simple shipboard components	50
TDMMB3807B	Dismantle, inspect, repair and reassemble vessel machinery	50
TDMMB3907A	Manage the testing, detection of faults, maintenance and restoration of electrical machinery and equipment to operating condition on vessels of unlimited propulsion power	45

National ID	Training Package Unit Title	Maximum Nominal Hours
TDMMB4007A	Manage the testing, detection of faults, maintenance and restoration of electronic control equipment to operating condition on vessels of unlimited propulsion power	31
TDMMB407B	Maintain seaworthiness of vessel	120
TDMMB4107A	Test, detect faults and maintain and restore electrical machinery and equipment to operating condition on vessels over 750 kW propulsion power	36
TDMMB4207A	Test, detect faults and maintain and restore electronic control equipment to operating condition on vessels over 750 kW propulsion power	24
TDMMB4307A	Monitor and manage the seaworthiness of the vessel	88
TDMMB4507A	Monitor condition and seaworthiness of a small vessel up to 24 metres	12
TDMMB4607A	Apply information on vessel structure to maintenance and seaworthiness	50
TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	12
TDMMB4807A	Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	5
TDMMB507B	Manage the maintenance of the vessel	5
TDMMB607B	Monitor condition and seaworthiness of a coastal vessel up to 80 metres	21
TDMMB707B	Slip vessel and maintain hull	4
TDMMB807B	Detect and identify the cause of machinery malfunctions and repair faults on vessels of unlimited propulsion power	50
TDMMB907B	Manage safe maintenance and repair procedures on vessels of unlimited propulsion power	66
TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	8
TDMMC107B	Manoeuvre and handle a vessel of 500 gross tonnage or more under all conditions	40
TDMMC207B	Operate remote controls of propulsion plant and engineering systems	53
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	10
TDMMC407B	Manoeuvre the vessel and operate small power plants within limits of responsibility of a Master 3	35
TDMMC507B	Manoeuvre a vessel within limits of responsibility of a Master 4	12
TDMMC607B	Manage a propulsion unit using the appropriate engine systems and support services	18
TDMMC707C	Apply seamanship skills and techniques when operating a small vessel within limits of responsibility of a Coxswain	12
TDMMC807B	Manoeuvre a vessel within the limits of responsibility of a Master 5	6
TDMMC907C	Manoeuvre a domestic vessel within limits of responsibility of a Coxswain	24
TDMME1007A	Transmit and receive information by marine VHF radio or telephone	14
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMME207B	Communicate using standard marine vocabulary	3
TDMME307B	Transmit and receive information by visual signalling	7
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMME707B	Use English in written and oral form to perform engineering	20

National ID	Training Package Unit Title	Maximum Nominal Hours
	duties	
TDMME807C	Transmit and receive information by GMDSS subsystems and equipment	70
TDMME907A	Communicate during shore-based mooring and untying operations	12
TDMMF1007B	Provide elementary first aid	20
TDMMF107B	Assist in search and rescue operations	16
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1407B	Plan and implement special safety, maintenance and emergency procedures for liquefied gas tankers	40
TDMMF1507B	Plan and implement special safety, maintenance and emergency procedures for chemical tankers	40
TDMMF1607B	Plan and implement special safety, maintenance and emergency procedures for oil tankers	40
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2107B	Control safe access to and on vessel	6
TDMMF2207B	Maintain safety of engine equipment, systems and services on vessels of unlimited propulsion power	30
TDMMF2307B	Operate emergency equipment and apply emergency procedures	8
TDMMF2407B	Maintain safety of engine equipment, systems and services on vessels over 750 kW propulsion power	40
TDMMF2507B	Ensure safe working practices	18
TDMMF2607B	Establish watchkeeping arrangements and procedures	35
TDMMF2707B	Prevent, control and fight fires on board a small vessel	8
TDMMF2907B	Maintain a safe navigational watch on a coastal voyage	100
TDMMF3007B	Maintain a safe navigational watch	100
TDMMF307B	Manage business and legal requirements on a vessel	83
TDMMF3107B	Maintain a safe engineering watch	35
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF3307B	Execute watchkeeping arrangements and procedures on a small vessel	56
TDMMF3507B	Contribute to maintaining a safe watch	35
TDMMF3807B	Establish engine room watchkeeping procedures on vessels of less than 3,000 kW propulsion power	20
TDMMF3907B	Maintain running log within the limits of responsibility of a Marine Engine Driver Grade 3	9
TDMMF4007B	Carry out basic operational engineering calculations	20
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF4107B	Carry out engineering calculations related to maintenance and operations	40
TDMMF4307B	Carry out fast rescue craft (FRC) operations	40
TDMMF4407B	Apply safety regulations on roll-on roll-off passenger vessels	28
TDMMF4707B	Contribute to maintaining a safe watch on a domestic vessel	15
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	20
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8

National ID	Training Package Unit Title	Maximum Nominal Hours
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5707A	Assist in safe operations and emergency procedures on a coastal vessel	8
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
TDMMF6007A	Follow OHS and emergency procedures during shore-based mooring operations	16
TDMMF607B	Organise and manage the provision of medical care on board a vessel	63
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMH1007B	Navigate a high speed vessel	40
TDMMH107B	Plan a voyage and conduct navigation	20
TDMMH1107B	Use radar and other electronic navigational aids to maintain safe navigation within limits of responsibility of a Master 5	25
TDMMH1207B	Plan and navigate a short voyage within inshore limits	31
TDMMH1307B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 5	9
TDMMH1407A	Apply weather information when navigating a vessel within limits of responsibility of a Master 3	30
TDMMH1507A	Measure and observe weather conditions and interpret and apply to watchkeeping	30
TDMMH1607A	Determine position of the vessel	160
TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	35
TDMMH1807A	Apply command navigation procedures on vessels (unlimited)	77
TDMMH1907A	Plan a passage	60
TDMMH2007A	Use radar and other wheelhouse equipment to maintain safe navigation within the limits of responsibility of a Master 4	54
TDMMH207B	Determine position of the vessel and the accuracy of the resultant position	90
TDMMH307B	Manage safe navigation through the use of radar and other navigational aids	30
TDMMH507B	Use radar and other bridge equipment to maintain safe navigation	120
TDMMH607B	Plan and conduct a coastal passage and determine position within limits of responsibility of a Master 4	60
TDMMH707B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 4	12
TDMMH807B	Plan and navigate an offshore passage within limits of responsibility of a Master 5	45
TDMMH907B	Forecast weather and oceanographic conditions	63
TDMML307B	Establish and maintain a harmonious workplace environment	15
TDMML407A	Manage administration of the vessel and its personnel	53
TDMML507A	Manage business and administration on vessels limited by tonnage or near coastal operations	13
TDMMO107A	Follow maritime security procedures	8
TDMMO207A	Carry out ship security officer functions	21

National ID	Training Package Unit Title	Maximum Nominal Hours
TDMMR1007B	Operate pumping systems and associated control systems	62
TDMMR107B	Operate and maintain steering gear arrangements	4
TDMMR1107B	Operate main and auxiliary machinery and associated control systems	100
TDMMR1307B	Operate electrical machinery and electronic control equipment on vessels over 750 kW propulsion power	80
TDMMR1407B	Manage fuel, bilge and ballast operations procedures on vessels over 750 kW propulsion power	20
TDMMR1507B	Operate, monitor and evaluate engine performance on vessels over 750 kW propulsion power	100
TDMMR1607B	Plan and schedule operations on vessels over 750 kW propulsion power	20
TDMMR1707B	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels over 750 kW propulsion power	100
TDMMR1807B	Operate deck machinery installed on a small vessel of less than 750 KW propulsion power	12
TDMMR1907B	Safely handle and stow explosive and flammable materials	3
TDMMR207B	Use and maintain deck equipment and machinery	16
TDMMR2107B	Operate and maintain engines, machinery and auxiliary power sources on vessels of less than 3,000 kW propulsion power	20
TDMMR2207B	Operate and maintain boiler systems	40
TDMMR2307B	Operate and maintain batteries, starter motors and power distribution systems	15
TDMMR2407B	Operate and maintain internal combustion engines and propulsion transmission systems	40
TDMMR2507B	Operate and maintain auxiliary machinery systems, including steering gear and refrigeration systems	20
TDMMR2607B	Operate, test and maintain marine electrical and control equipment	20
TDMMR2707B	Operate and maintain marine internal combustion engines within the limits of responsibility of a Marine Engine Driver Grade 2	42
TDMMR2807B	Operate and maintain auxiliary systems on vessels within limits of responsibility of a Marine Engine Driver Grade 2	20
TDMMR2907B	Operate and maintain marine low and medium voltage electrical systems	20
TDMMR3007B	Operate and carry out basic service checks on small vessel marine propulsion systems	9
TDMMR307B	Operate fuel, fresh and sea water, bilge and fire pumping systems installed in a vessel	4
TDMMR3107B	Operate and carry out basic servicing on auxiliary systems	9
TDMMR3207B	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	9
TDMMR3307B	Perform rigging and lifting operations on board a vessel	42
TDMMR3407B	Operate deck machinery	20
TDMMR407B	Operate electrical machinery and electronic control equipment on vessels of unlimited propulsion power	76
TDMMR4307B	Assist in mooring and anchor handling activities	10
TDMMR4407B	Assist in completion of deck operations and maintenance documentation	10
TDMMR4507B	Provide support in completing cargo and bunkering operations	21
TDMMR4607B	Assist in basic welding, brazing, cutting and machinery	105

National ID	Training Package Unit Title	Maximum Nominal Hours
	operations on a vessel	
TDMMR4707B	Use and care for hand and power tools on a vessel	35
TDMMR5007B	Carry out basic food handling, preparation, stock control and storage on an off-shore support vessel or rig	30
TDMMR507B	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	20
TDMMR5107B	Carry out windlass operations on a rig	40
TDMMR5207B	Carry out dogging and cargo handling operations at a rig	15
TDMMR5307B	Carry out anchor handling, towage and supply duties at a rig	20
TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMR5507B	Perform seamanship, rigging and lifting operations on board a small domestic vessel	16
TDMMR5607A	Carry out shore-based mooring and untying operations	24
TDMMR5707A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels of unlimited propulsion power	103
TDMMR5807A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels over 750 kW propulsion power	76
TDMMR5907A	Operate steam propulsion plant and associated systems on steam vessels	90
TDMMR6007A	Assist in routine deck operations within limits of responsibility of a General Purpose Hand	24
TDMMR607B	Manage the operation, monitoring and evaluation of the performance of engines on vessels of unlimited propulsion power	70
TDMMR6107A	Use and care for hand and power tools on a small vessel	36
TDMMR6207A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	105
TDMMR707B	Plan and schedule operations on vessels of unlimited propulsion power	20
TDMMR807B	Manage the start up and shut down of main propulsion and auxiliary machinery and associated systems on vessels of unlimited propulsion power	70
TDMMR907B	Operate alternators, generators and control systems to supply shipboard electrical power	84
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
TDMMU407B	Ensure compliance with pollution prevention measures	6
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2

Qualifications which replace qualifications from Maritime Training Package TDM01

The following table provides an overview of the qualifications from the Maritime Training Package - TDM07 which replace qualifications from the version of the Maritime Training Package - TDM01

Maritime Training Package TDM01			Maritime Training Package TDM07		
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours
TDM10101	Certificate I in Transport and Distribution (Maritime Operations)	73	TDM10107	Certificate I in Transport and Distribution (Maritime Operations)	76
	No Previous Equivalent		TDM10207	Certificate I in Transport and Distribution (Maritime Operations - Shore-based Linesperson)	132
TDM20101	Certificate II in Transport and Distribution (Maritime Operations)	212	TDM20107	Certificate II in Transport and Distribution (Maritime Operations)	210
TDM20201	Certificate II in Transport and Distribution (Marine Engine Driving)	150	TDM20207	Certificate II in Transport and Distribution (Marine Engine Driving - Grade 3)	170
TDM20101	Certificate II in Transport and Distribution (Maritime Operations)	212	TDM20307	Certificate II in Transport and Distribution (Coastal Maritime Operations - Coxswain)	199
TDM30101	Certificate III in Transport and Distribution (Maritime Operations)	288	TDM30107	Certificate III in Transport and Distribution (Maritime Operations)	450
TDM30201	Certificate III in Transport and Distribution (Marine Engine Driving)	255	TDM30207	Certificate III in Transport and Distribution (Marine Engine Driving - Grade 2)	241
TDM30101	Certificate III in Transport and Distribution (Maritime Operations)	288	TDM30307	Certificate III in Transport and Distribution (Maritime Operations - Integrated Rating)	573
TDM30101	Certificate III in Transport and Distribution (Maritime Operations)	288	TDM30407	Certificate III in Transport and Distribution (Coastal Maritime Operations - Master Class 5)	269
TDM40101	Certificate IV in Transport and Distribution (Maritime Operations)	665	TDM40107	Certificate IV in Transport and Distribution (Maritime Operations)	665
TDM40201	Certificate IV in Transport and Distribution (Marine Engineering)	368	TDM40207	Certificate IV in Transport and Distribution (Marine Engine Driving - Grade 1)	403
TDM40201	Certificate IV in Transport and Distribution (Marine Engineering)	368	TDM40307	Certificate IV in Transport and Distribution (Coastal Maritime Operations - Master Class 4)	402
TDM50101	Diploma of Transport and Distribution (Maritime Operations)	927	TDM50107	Diploma of Transport and Distribution (Maritime Operations)	825
TDM50201	Diploma of Transport and Distribution	900	TDM50207	Diploma of Transport and Distribution (Marine)	1019

Maritime Training Package TDM01			Maritime Training Package TDM07		
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours
	(Marine Engineering)			Engineering - Engineer Watchkeeper)	
	No Previous Equivalent		TDM50307	Diploma of Transport and Distribution (Maritime Operations - Deck Watchkeeper)	984
	No Previous Equivalent		TDM50407	Diploma of Transport and Distribution (Coastal Marine Engineering - Engineer Class 3)	458
TDM50101	Diploma of Transport and Distribution (Maritime Operations)	927	TDM50507	Diploma of Transport and Distribution (Coastal Maritime Operations - Master Class 3)	1091
TDM60101	Advanced Diploma of Transport and Distribution (Maritime Operations)	1405	TDM60107	Advanced Diploma of Transport and Distribution (Maritime Operations)	1476
TDM60201	Advanced Diploma of Transport and Distribution (Marine Engineering)	1291	TDM60207	Advanced Diploma of Transport and Distribution (Marine Engineering Class 1)	1150
TDM60201	Advanced Diploma of Transport and Distribution (Marine Engineering)	1291	TDM60307	Advanced Diploma of Transport and Distribution (Marine Engineering Class 2)	1096
TDM60201	Advanced Diploma of Transport and Distribution (Marine Engineering)	1291	TDM60407	Advanced Diploma of Transport and Distribution (Maritime Operations - Master Unlimited)	1391

Units of Competency which replace Units of Competency from the Maritime Training Package - TDM01

The following table provides an overview of the units of competency from the Maritime Training Package - TDM01 which are replaced by the units of competency from the Maritime Training Package - TDM07

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
TDMMA1001A	Control trim, stability and stress	75	TDMMA1007B	Control trim, stability and stress	120
TDMMA101A	Plan and ensure safe loading, stowage, security and unloading of cargo	40	TDMMA107B	Plan and ensure safe loading, stowage, security and unloading of cargo	50
TDMMA1101A	Maintain the stability of a vessel using basic stability information	12	TDMMA1107B	Maintain the stability of a vessel using basic stability information	12
TDMMA1201A	Manage stress and dynamic factors affecting a small vessel's stability	21	TDMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	21
TDMMA1601A	Manage loading and embarkation procedures on roll-on roll-off vessels	30	TDMMA1607B	Manage loading and embarkation procedures on roll-on roll-off vessels	30
	No Previous Equivalent		TDMMA1707A	Determine the stability and trim of the vessel	70
TDMMA201A	Plan and ensure safe care of cargo during a voyage	12	TDMMA207B	Plan and ensure safe care of cargo during the voyage	20
TDMMA301A	Plan and monitor the carriage of dangerous cargoes	12	TDMMA307B	Plan and monitor the carriage of dangerous cargoes	20
TDMMA401A	Manage procedures for the handling, loading and discharging of liquefied gas cargoes	40	TDMMA407B	Manage procedures for the handling, loading and discharging of liquefied gas cargoes	40
TDMMA501A	Manage procedures for the handling, loading and discharging of chemical cargoes	40	TDMMA507B	Manage procedures for the handling, loading and discharging of chemical cargoes	40
TDMMA601A	Manage procedures for the handling, loading and discharging of oil cargoes	40	TDMMA607B	Manage procedures for the handling, loading and discharging of oil cargoes	40
TDMMA701A	Monitor the loading, stowage, security and unloading of cargo	37	TDMMA707B	Monitor the loading, stowage, security and unloading of cargo	28
TDMMA801A	Monitor the care of cargo during a voyage	7	TDMMA807B	Monitor the care of cargo during a voyage	7
TDMMA901A	Prepare a cargo plan for cargo loading and unloading operations	12	TDMMA907B	Prepare a cargo plan for cargo loading and unloading operations within limits of responsibility	12

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
				of a Master 4	
TDMMB101B	Perform routine remedial, preventative and survey deck maintenance on a vessel	35	TDMMB107C	Perform routine remedial, preventative and survey deck maintenance on a vessel	35
TDMMB1201A	Fault-find, dismantle, maintain and repair shipboard plant and equipment	95	TDMMB1207B	Fault-find, dismantle, maintain and repair shipboard plant and equipment	95
TDMMB1301A	Carry out shipboard fabrication and repair operations	96	TDMMB1307B	Carry out shipboard fabrication and repair operations	96
TDMMB1501A	Detect/identify cause of machinery malfunctions & repair faults - unlimited propulsion	57	TDMMB1507B	Detect and identify the cause of machinery malfunctions and repair faults on vessels over 750 kW propulsion power	70
TDMMB1601A	Organise safe maintenance and repair procedures on vessels of over 750 kw propulsion power	57	TDMMB1607B	Organise safe maintenance and repair procedures on vessels of over 750 kW of propulsion power	57
TDMMB1901A	Carry out basic hull servicing	9	TDMMB1907B	Carry out basic hull servicing	9
TDMMB2001A	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	100	TDMMB2007B	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	90
TDMMB2901A	Recognise and correct deteriorated fittings and machinery	9	TDMMB2907B	Recognise and correct deteriorated fittings and machinery	9
TDMMB3101A	Organise maintenance and repairs on a small vessel	40	TDMMB3107B	Organise maintenance and repairs on a small vessel	40
TDMMB3501A	Employ damage control techniques for hull damage	6	TDMMB3507B	Employ damage control techniques for hull damage	6
TDMMB3601A	Prepare a small vessel's machinery for sea	12	TDMMB3607B	Prepare a small vessel's machinery for sea within the limits of responsibility of a Marine Engine Driver Grade 3	12
TDMMB3701A	Fabricate simple shipboard components	50	TDMMB3707B	Fabricate simple shipboard components	50
TDMMB3801A	Dismantle, inspect, repair and reassemble vessel machinery	50	TDMMB3807B	Dismantle, inspect, repair and reassemble vessel machinery	50
	No Previous Equivalent		TDMMB3907A	Manage the testing, detection of faults, maintenance and restoration of electrical machinery and equipment to operating condition on vessels of unlimited propulsion power	45
	No Previous Equivalent		TDMMB4007A	Manage the testing, detection of faults, maintenance and restoration of electronic control	31

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
				equipment to operating condition on vessels of unlimited propulsion power	
TDMMB401A	Maintain seaworthiness of vessel	55	TDMMB407B	Maintain seaworthiness of vessel	120
	No Previous Equivalent		TDMMB4107A	Test, detect faults and maintain and restore electrical machinery and equipment to operating condition on vessels over 750 kW propulsion power	36
	No Previous Equivalent		TDMMB4207A	Test, detect faults and maintain and restore electronic control equipment to operating condition on vessels over 750 kW propulsion power	24
	No Previous Equivalent		TDMMB4307A	Monitor and manage the seaworthiness of the vessel	88
	No Previous Equivalent		TDMMB4507A	Monitor condition and seaworthiness of a small vessel up to 24 metres	12
	No Previous Equivalent		TDMMB4607A	Apply information on vessel structure to maintenance and seaworthiness	50
	No Previous Equivalent		TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	12
	No Previous Equivalent		TDMMB4807A	Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	5
TDMMB501A	Manage the maintenance of the vessel	20	TDMMB507B	Manage the maintenance of the vessel	5
TDMMB601A	Monitor condition and seaworthiness of a small vessel	21	TDMMB607B	Monitor condition and seaworthiness of a coastal vessel up to 80 metres	21
TDMMB701A	Slip vessel and maintain hull	4	TDMMB707B	Slip vessel and maintain hull	4
TDMMB801A	Detect/identify cause of machinery malfunctions & repair faults - over 740 kw propulsion power	33	TDMMB807B	Detect and identify the cause of machinery malfunctions and repair faults on vessels of unlimited propulsion power	50
TDMMB901A	Organize safe maintenance and repair procedures on vessels of unlimited propulsion power	66	TDMMB907B	Manage safe maintenance and repair procedures on vessels of unlimited propulsion power	66
TDMMC1001B	Steer a domestic vessel under the direction of the master or officer in charge	8	TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	8

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	of the watch				
TDMMC101A	Manoeuvre and handle a vessel of 500 gross tonnage or more under all conditions	40	TDMMC107B	Manoeuvre and handle a vessel of 500 gross tonnage or more under all conditions	40
TDMMC201A	Operate remote controls of propulsion plant and engineering systems and procedures	53	TDMMC207B	Operate remote controls of propulsion plant and engineering systems	53
TDMMC301A	Manoeuvre and handle the vessel in normal conditions	25	TDMMC307B	Manoeuvre and handle the vessel in normal conditions	10
TDMMC401A	Manoeuvre the vessel and operate small power plants	35	TDMMC407B	Manoeuvre the vessel and operate small power plants within limits of responsibility of a Master 3	35
TDMMC501A	Manoeuvre a vessel less than 80metres in length in any prevailing conditions	12	TDMMC507B	Manoeuvre a vessel within limits of responsibility of a Master 4	12
TDMMC601A	Manage a propulsion unit using the appropriate engine systems and support services	18	TDMMC607B	Manage a propulsion unit using the appropriate engine systems and support services	18
TDMMC701B	Apply seamanship skills and techniques when operating a small domestic vessel	6	TDMMC707C	Apply seamanship skills and techniques when operating a small vessel within limits of responsibility of a Coxswain	12
TDMMC801A	Manoeuvre a vessel less than 24 metres in length within inshore limits	6	TDMMC807B	Manoeuvre a vessel within the limits of responsibility of a Master 5	6
TDMMC901B	Manoeuvre a domestic vessel of less than 12 metres in length operating within inshore limits	24	TDMMC907C	Manoeuvre a domestic vessel within limits of responsibility of a Coxswain	24
	No Previous Equivalent		TDMME1007A	Transmit and receive information by marine VHF radio or telephone	14
	No Previous Equivalent		TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMME201A	Communicate using standard marine vocabulary	7	TDMME207B	Communicate using standard marine vocabulary	3
TDMME301A	Transmit and receive information by visual signalling	12	TDMME307B	Transmit and receive information by visual signalling	7
TDMME501A	Transmit and receive information by marine radio or telephone	25	TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMME701A	Use English in written and oral form to	20	TDMME707B	Use English in written and oral form to perform	20

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	perform engineering duties			engineering duties	
TDMME801B	Transmit and receive information by GMDSS subsystems and equipment on a vessel	70	TDMME807C	Transmit and receive information by GMDSS subsystems and equipment	70
	No Previous Equivalent		TDMME907A	Communicate during shore-based mooring and untying operations	12
TDMMF1001A	Provide first aid	20	TDMMF1007B	Provide elementary first aid	20
TDMMF101A	Assist in search and rescue operations	8	TDMMF107B	Assist in search and rescue operations	16
TDMMF1101A	Survive at sea in the event of vessel abandonment	16	TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1401A	Plan and implement special safety, maintenance and emergency procedures for liquefied gas tankers	40	TDMMF1407B	Plan and implement special safety, maintenance and emergency procedures for liquefied gas tankers	40
TDMMF1501A	Plan and implement special safety, maintenance and emergency procedures for chemical tankers	40	TDMMF1507B	Plan and implement special safety, maintenance and emergency procedures for chemical tankers	40
TDMMF1601A	Plan and implement special safety, maintenance and emergency procedures for oil tankers	40	TDMMF1607B	Plan and implement special safety, maintenance and emergency procedures for oil tankers	40
TDMMF1801A	Apply medical first aid on board a vessel	42	TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1901A	Operate life-saving appliances	30	TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2101A	Control safe access to and on vessel	10	TDMMF2107B	Control safe access to and on vessel	6
TDMMF2201A	Maintain safety of engine equipment, systems and services on vessels of unlimited propulsion power	84	TDMMF2207B	Maintain safety of engine equipment, systems and services on vessels of unlimited propulsion power	30
TDMMF2301A	Operate emergency equipment and apply emergency procedures	10	TDMMF2307B	Operate emergency equipment and apply emergency procedures	8
TDMMF2401A	Maintain safety of engine equipment, systems and services on vessels over 750 kw propulsion power	40	TDMMF2407B	Maintain safety of engine equipment, systems and services on vessels over 750 kW propulsion power	40
TDMMF2501A	Ensure safe working practices	76	TDMMF2507B	Ensure safe working practices	18
TDMMF2601A	Establish watchkeeping arrangements and procedures	24	TDMMF2607B	Establish watchkeeping arrangements and procedures	35
TDMMF2700A	Prevent, control and fight fires on board a	14	TDMMF2707B	Prevent, control and fight fires on board a small	8

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	small vessel			vessel	
TDMMF2901A	Maintain a safe navigational watch on a coastal voyage	50	TDMMF2907B	Maintain a safe navigational watch on a coastal voyage	100
TDMMF3001A	Maintain a safe navigational watch	50	TDMMF3007B	Maintain a safe navigational watch	100
TDMMF301A	Monitor compliance with legislative requirements and measures to ensure safety of life at sea	95	TDMMF307B	Manage business and legal requirements on a vessel	83
TDMMF3101A	Maintain a safe engineering watch	95	TDMMF3107B	Maintain a safe engineering watch	35
TDMMF3201B	Apply domestic regulations when operating a small vessel	6	TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF3301A	Execute watchkeeping arrangements and procedures on a small vessel	42	TDMMF3307B	Execute watchkeeping arrangements and procedures on a small vessel	56
TDMMF3501A	Contribute to maintaining a safe watch	35	TDMMF3507B	Contribute to maintaining a safe watch	35
TDMMF3801A	Establish engine room watchkeeping procedures on vessels of less than 3,000 kw propulsion power	20	TDMMF3807B	Establish engine room watchkeeping procedures on vessels of less than 3,000 kW propulsion power	20
TDMMF3901A	Maintain running log including fuel calculations and written reports	9	TDMMF3907B	Maintain running log within the limits of responsibility of a Marine Engine Driver Grade 3	9
TDMMF4001A	Carry out basic operational engineering calculations	8	TDMMF4007B	Carry out basic operational engineering calculations	20
TDMMF401A	Maintain the operational condition of life-saving, fire fighting and other safety systems	7	TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF4101A	Carry out engineering calculations related to maintenance and operations	40	TDMMF4107B	Carry out engineering calculations related to maintenance and operations	40
TDMMF4301A	Carry out fast rescue craft (FRC) operations	40	TDMMF4307B	Carry out fast rescue craft (FRC) operations	40
TDMMF4401A	Apply safety regulations on roll-on roll-off passenger vessels	40	TDMMF4407B	Apply safety regulations on roll-on roll-off passenger vessels	28
TDMMF4702A	Contribute to maintaining a safe watch on a domestic vessel	15	TDMMF4707B	Contribute to maintaining a safe watch on a domestic vessel	15
TDMMF501B	Develop emergency and damage control plans and handle emergency situations on board a vessel	12	TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	20
	No Previous Equivalent		TDMMF5407A	Observe safety and emergency procedures on a	4

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
				coastal vessel	
	No Previous Equivalent		TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
	No Previous Equivalent		TDMMF5607A	Observe personal safety and social responsibilities	12
	No Previous Equivalent		TDMMF5707A	Assist in safe operations and emergency procedures on a coastal vessel	8
	No Previous Equivalent		TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
	No Previous Equivalent		TDMMF5907A	Work safely in enclosed spaces on a vessel	6
	No Previous Equivalent		TDMMF6007A	Follow OHS and emergency procedures during shore-based mooring operations	16
TDMMF601A	Organise and manage the provision of medical care on board a vessel	63	TDMMF607B	Organise and manage the provision of medical care on board a vessel	63
	No Previous Equivalent		TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
	No Previous Equivalent		TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMH1001A	Navigate a high speed vessel	40	TDMMH1007B	Navigate a high speed vessel	40
TDMMH101A	Plan voyage and conduct navigation	100	TDMMH107B	Plan a voyage and conduct navigation	20
TDMMH1102A	Use radar to maintain safe navigation	25	TDMMH1107B	Use radar and other electronic navigational aids to maintain safe navigation within limits of responsibility of a Master 5	25
TDMMH1202A	Plan and navigate a short voyage within inshore limits	23	TDMMH1207B	Plan and navigate a short voyage within inshore limits	31
TDMMH1302A	Apply weather information when navigating a small vessel	12	TDMMH1307B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 5	9
	No Previous Equivalent		TDMMH1407A	Apply weather information when navigating a vessel within limits of responsibility of a Master 3	30
	No Previous Equivalent		TDMMH1507A	Measure and observe weather conditions and interpret and apply to watchkeeping	30
	No Previous Equivalent		TDMMH1607A	Determine position of the vessel	160
	No Previous Equivalent		TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal	35

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
				operations	
	No Previous Equivalent		TDMMH1807A	Apply command navigation procedures on vessels (unlimited)	77
	No Previous Equivalent		TDMMH1907A	Plan a passage	60
	No Previous Equivalent		TDMMH2007A	Use radar and other wheelhouse equipment to maintain safe navigation within the limits of responsibility of a Master 4	54
TDMMH201A	Determine position of the vessel and the accuracy of the resultant position	100	TDMMH207B	Determine position of the vessel and the accuracy of the resultant position	90
TDMMH301A	Manage safe navigation through the use of radar and other navigational aids	30	TDMMH307B	Manage safe navigation through the use of radar and other navigational aids	30
TDMMH501A	Use radar and other electronic aids to maintain safe navigation	92	TDMMH507B	Use radar and other bridge equipment to maintain safe navigation	120
TDMMH601A	Plan and conduct a coastal passage and determine position	90	TDMMH607B	Plan and conduct a coastal passage and determine position within limits of responsibility of a Master 4	60
TDMMH701A	Apply weather information when navigating a small vessel	12	TDMMH707B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 4	12
TDMMH801A	Plan and navigate an inshore passage	45	TDMMH807B	Plan and navigate an offshore passage within limits of responsibility of a Master 5	45
TDMMH901A	Forecast weather and oceanographic conditions	63	TDMMH907B	Forecast weather and oceanographic conditions	63
TDMML301A	Establish and maintain a harmonious workplace environment	15	TDMML307B	Establish and maintain a harmonious workplace environment	15
	No Previous Equivalent		TDMML407A	Manage administration of the vessel and its personnel	53
	No Previous Equivalent		TDMML507A	Manage business and administration on vessels limited by tonnage or near coastal operations	13
	No Previous Equivalent		TDMMO107A	Follow maritime security procedures	8
	No Previous Equivalent		TDMMO207A	Carry out ship security officer functions	21
TDMMR1001A	Operate pumping systems and associated control systems	20	TDMMR1007B	Operate pumping systems and associated control systems	62
TDMMR101A	Operate and maintain steering gear arrangements	4	TDMMR107B	Operate and maintain steering gear arrangements	4

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
TDMMR1101A	Operate main and auxiliary machinery and associated control systems	65	TDMMR1107B	Operate main and auxiliary machinery and associated control systems	100
TDMMR1301A	Operate electrical machinery & electronic control equipment on vessels over 750 kw propulsion power	84	TDMMR1307B	Operate electrical machinery and electronic control equipment on vessels over 750 kW propulsion power	80
TDMMR1401A	Manage fuel, bilge and ballast operations procedures on vessels over 750 kw propulsion power	25	TDMMR1407B	Manage fuel, bilge and ballast operations procedures on vessels over 750 kW propulsion power	20
TDMMR1501A	Operate, monitor and evaluate engine performance on vessels over 750 kw propulsion power	40	TDMMR1507B	Operate, monitor and evaluate engine performance on vessels over 750 kW propulsion power	100
TDMMR1601A	Plan and schedule operations on vessels over 750 kw propulsion power	10	TDMMR1607B	Plan and schedule operations on vessels over 750 kW propulsion power	20
TDMMR1701A	Start up/shut down main propulsion, auxiliary machinery & assoc. systems > 750 kw propulsion power	20	TDMMR1707B	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels over 750 kW propulsion power	100
TDMMR1801A	Operate deck machinery installed on a small vessel	12	TDMMR1807B	Operate deck machinery installed on a small vessel of less than 750 KW propulsion power	12
TDMMR1901A	Safely handle and stow explosive and flammable materials	3	TDMMR1907B	Safely handle and stow explosive and flammable materials	3
TDMMR201A	Use and maintain deck equipment and machinery	4	TDMMR207B	Use and maintain deck equipment and machinery	16
TDMMR2101A	Operate/maintain engines, machinery & auxiliary power sources < 3,000 kw propulsion power	20	TDMMR2107B	Operate and maintain engines, machinery and auxiliary power sources on vessels of less than 3,000 kW propulsion power	20
TDMMR2201A	Operate and maintain boiler systems	40	TDMMR2207B	Operate and maintain boiler systems	40
TDMMR2301A	Operate and maintain batteries, starter motors and power distribution systems	15	TDMMR2307B	Operate and maintain batteries, starter motors and power distribution systems	15
TDMMR2401A	Operate and maintain internal combustion engines and propulsion transmission systems	40	TDMMR2407B	Operate and maintain internal combustion engines and propulsion transmission systems	40
TDMMR2501A	Operate and maintain auxiliary machinery systems, including steering gear and refrigeration systems	20	TDMMR2507B	Operate and maintain auxiliary machinery systems, including steering gear and refrigeration systems	20
TDMMR2601A	Operate, test, and maintain marine	20	TDMMR2607B	Operate, test and maintain marine electrical and	20

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	electrical and control equipment			control equipment	
TDMMR2701A	Operate & maintain marine internal combustion engines on vessels of 750 kw propulsion power or less	30	TDMMR2707B	Operate and maintain marine internal combustion engines within the limits of responsibility of a Marine Engine Driver Grade 2	42
TDMMR2801A	Operate and maintain auxiliary systems on vessels up to 750 kw propulsion power	30	TDMMR2807B	Operate and maintain auxiliary systems on vessels within limits of responsibility of a Marine Engine Driver Grade 2	20
TDMMR2901A	Operate and maintain marine low and medium voltage electrical systems	20	TDMMR2907B	Operate and maintain marine low and medium voltage electrical systems	20
TDMMR3001A	Operate and carry out basic service checks on small vessel marine propulsion systems	9	TDMMR3007B	Operate and carry out basic service checks on small vessel marine propulsion systems	9
TDMMR301A	Operate fuel, fresh and ballast water, bilge and fire pumping systems installed in a vessel	10	TDMMR307B	Operate fuel, fresh and sea water, bilge and fire pumping systems installed in a vessel	4
TDMMR3101A	Operate and carry out basic servicing on auxiliary systems	9	TDMMR3107B	Operate and carry out basic servicing on auxiliary systems	9
TDMMR3201A	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	9	TDMMR3207B	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	9
TDMMR3301A	Perform rigging and lifting operations on board a vessel	42	TDMMR3307B	Perform rigging and lifting operations on board a vessel	42
TDMMR3401A	Operate deck machinery	20	TDMMR3407B	Operate deck machinery	20
TDMMR401A	Operate electrical machinery and electronic control equipment on vessels of unlimited propulsion pow	76	TDMMR407B	Operate electrical machinery and electronic control equipment on vessels of unlimited propulsion power	76
TDMMR4301A	Assist in mooring and anchor handling activities	10	TDMMR4307B	Assist in mooring and anchor handling activities	10
TDMMR4401A	Assist in completion of deck operations and maintenance documentation	10	TDMMR4407B	Assist in completion of deck operations and maintenance documentation	10
TDMMR4501A	Provide support in completing cargo and bunkering operations	21	TDMMR4507B	Provide support in completing cargo and bunkering operations	21
TDMMR4601A	Assist in basic welding, brazing, cutting and machining operations on a vessel	105	TDMMR4607B	Assist in basic welding, brazing, cutting and machinery operations on a vessel	105
TDMMR4701A	Use and care for hand and power tools	35	TDMMR4707B	Use and care for hand and power tools on a	35

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	carried on a vessel			vessel	
TDMMR5001A	Carry out basic food handling/preparation/stock control & storage on an off-shore support vessel/rig	30	TDMMR5007B	Carry out basic food handling, preparation, stock control and storage on an off-shore support vessel or rig	30
TDMMR501A	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	38	TDMMR507B	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	20
TDMMR5101A	Carry out windlass operations on a rig	40	TDMMR5107B	Carry out windlass operations on a rig	40
TDMMR5201A	Carry out dogging and cargo handling operations at a rig	15	TDMMR5207B	Carry out dogging and cargo handling operations at a rig	15
TDMMR5301A	Carry out anchor handling, towage and supply duties at a rig	20	TDMMR5307B	Carry out anchor handling, towage and supply duties at a rig	20
TDMMR5402A	Carry out refuelling and fuel transfer operations	4	TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMR5502A	Perform rigging and lifting operations on board a small domestic vessel	4	TDMMR5507B	Perform seamanship, rigging and lifting operations on board a small domestic vessel	16
	No Previous Equivalent		TDMMR5607A	Carry out shore-based mooring and untying operations	24
	No Previous Equivalent		TDMMR5707A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels of unlimited propulsion power	103
	No Previous Equivalent		TDMMR5807A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels over 750 kW propulsion power	76
	No Previous Equivalent		TDMMR5907A	Operate steam propulsion plant and associated systems on steam vessels	90
	No Previous Equivalent		TDMMR6007A	Assist in routine deck operations within limits of responsibility of a General Purpose Hand	24
TDMMR601A	Operate, monitor and evaluate engine performance on vessels of unlimited propulsion power	33	TDMMR607B	Manage the operation, monitoring and evaluation of the performance of engines on vessels of unlimited propulsion power	70
	No Previous Equivalent		TDMMR6107A	Use and care for hand and power tools on a small vessel	36
	No Previous Equivalent		TDMMR6207A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	105

Maritime Training Package Training Package TDM01			Maritime Training Package Training Package TDM07		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
TDMMR701A	Plan and schedule operations on vessels of unlimited propulsion power	33	TDMMR707B	Plan and schedule operations on vessels of unlimited propulsion power	20
TDMMR801A	Start up/shut down main propulsion, auxiliary machinery & assoc. systems > 750 kw propulsion power	20	TDMMR807B	Manage the start up and shut down of main propulsion and auxiliary machinery and associated systems on vessels of unlimited propulsion power	70
TDMMR901A	Operate alternators, generators and control systems to supply shipboard electrical power	84	TDMMR907B	Operate alternators, generators and control systems to supply shipboard electrical power	84
TDMMU101A	Monitor compliance with legislative requirements & measures to ensure protection of the environment	12	TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
TDMMU401A	Ensure compliance with pollution prevention measures	6	TDMMU407B	Ensure compliance with pollution prevention measures	6
TDMMU502A	Ensure compliance with environmental considerations in a small domestic vessel	2	TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2

Traineeships, Apprenticeships and Pre-Apprenticeships

The following table provides a summary of the qualifications in the Maritime Training Package Training Package TDM07 and the accredited traineeship, apprenticeship and pre-apprenticeship courses they will replace.

Maritime Training Package TDM01			Maritime Training Package TDM07		
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours
TRAINEESHIPS					
TDM20101	Certificate II in Transport and Distribution (Maritime Operations)	212	TDM20107	Certificate II in Transport and Distribution (Maritime Operations)	210
			TDM20307	Certificate II in Transport and Distribution (Coastal Maritime Operations - Coxswain)	199
TDM20201	Certificate II in Transport and Distribution (Marine Engine Driving)	150	TDM20207	Certificate II in Transport and Distribution (Marine Engine Driving - Grade 3)	170
TDM30101	Certificate III in Transport and Distribution (Maritime Operations)	288	TDM30107	Certificate III in Transport and Distribution (Maritime Operations)	450
			TDM30307	Certificate III in Transport and Distribution (Maritime Operations - Integrated Rating)	573
TDM30201	Certificate III in Transport and Distribution (Marine Engine Driving)	255	TDM30207	Certificate III in Transport and Distribution (Marine Engine Driving - Grade 2)	241
APPRENTICESHIPS					
There are no apprenticeships in this area.					
PRE-APPRENTICESHIPS					
There are no pre-apprenticeships in this area					

Examples of Training Package Programs

Units of competency may be customised so that the tasks involved in demonstrating competence are designed to meet the requirements of an individual enterprise or to satisfy regulations in a particular state or territory.

Each qualification in the Maritime Training Package TDM07 may be customised to meet the context in which the training is taking place. A qualification can also be customised to accommodate a learner's chosen career pathway.

The following are examples of suitable training programs for Maritime Training Package TDM07. The models are not intended to be prescriptive but illustrate ways that qualifications can be achieved.

TDM10107 - Certificate I in Transport and Distribution (Maritime Operations)

Qualification Title	Certificate I in Transport and Distribution (Maritime Operations)
Qualification Code	TDM10107
Qualification Packaging Rules	<p>Requirements for completion of the qualification: A successful outcome of five units of competency which must include:</p> <ul style="list-style-type: none"> - the two units listed, plus - at least three additional units to satisfy specific additional employment needs beyond the minimum mandatory requirements. <p>Note: Where units of competency are included from another Training Package, check if the unit has any pre-requisite or co-requisite requirements.</p>

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF5707A	Assist in safe operations and emergency procedures on a coastal vessel	8
Elective Units		
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMR6007A	Assist in routine deck operations within limits of responsibility of a General Purpose Hand	24
Total		76

TDM10207 - Certificate I in Transport and Distribution (Maritime Operations - Shore-based Linesperson)

Qualification Title	Certificate I in Transport and Distribution (Maritime Operations - Shore-based Linesperson)
Qualification Code	TDM10207
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of six units of competency listed. Additional units may be included within the qualification if required to meet any specific needs beyond the minimum mandatory requirements.

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMME907A	Communicate during shore-based mooring and untying operations	12
TDMMF1007B	Provide elementary first aid	20
TDMMF6007A	Follow OHS and emergency procedures during shore-based mooring operations	16
TDMMR5607A	Carry out shore-based mooring and untying operations	24
TDTD197B	Shift materials safely using manual handling methods	20
TDTG197B	Work effectively with others	40
Total		132

TDM20107 - Certificate II in Transport and Distribution (Maritime Operations)

Qualification Title	Certificate II in Transport and Distribution (Maritime Operations)
Qualification Code	TDM20107
Qualification Packaging Rules	<p>Requirements for completion of the qualification: A successful outcome of sixteen units of competency which must include:</p> <ul style="list-style-type: none"> - the seven mandatory units listed, plus - at least nine additional units (at least seven of which must be aligned at AQF Level 2) to specific additional maritime employment needs beyond the minimum mandatory requirements.

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
[Specialist] Elective Units		
TDMMA207B	Plan and ensure safe care of cargo during the voyage	20
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	10
TDMMC707C	Apply seamanship skills and techniques when operating a small vessel within limits of responsibility of a Coxswain	12
TDMMC907C	Manoeuvre a domestic vessel within limits of responsibility of a Coxswain	24
TDMME207B	Communicate using standard marine vocabulary	3
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMMH1207B	Plan and navigate a short voyage within inshore limits	31
TDMMH1307B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 5	9
TDMMR5407B	Carry out refueling and fuel transfer operations	4
Total		202

TDM20207 - Certificate II in Transport and Distribution (Marine Engine Driving - Grade 3)

Qualification Title	Certificate II in Transport and Distribution (Marine Engine Driving - Grade 3)
Qualification Code	TDM20207
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of sixteen units of competency listed. Additional units from those listed in the qualification or relevant units from this or other Training Packages 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)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMB1907B	Carry out basic hull servicing	9
TDMMB3607B	Prepare a small vessel's machinery for sea within the limits of responsibility of a Marine Engine Driver Grade 3	12
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3907B	Maintain running log within the limits of responsibility of a Marine Engine Driver Grade 3	9
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMR1807B	Operate deck machinery installed on a small vessel of less than 750 KW propulsion power	12
TDMMR1907B	Safely handle and stow explosive and flammable materials	3
TDMMR3007B	Operate and carry out basic service checks on small vessel marine propulsion systems	9
TDMMR3107B	Operate and carry out basic servicing on auxiliary systems	9
TDMMR3207B	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	9
TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMR6107A	Use and care for hand and power tools on a small vessel	36
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
Total		170

TDM20307 - Certificate II in Transport and Distribution (Coastal Maritime Operations - Coxswain)

Qualification Title	Certificate II in Transport and Distribution (Coastal Maritime Operations - Coxswain)
Qualification Code	TDM20307
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of sixteen units of competency listed. Additional units from those listed in the qualification or relevant units from this or other Training Packages 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)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMB4507A	Monitor condition and seaworthiness of a small vessel up to 24 metres	12
TDMMC707C	Apply seamanship skills and techniques when operating a small vessel within limits of responsibility of a Coxswain	12
TDMMC907C	Manoeuvre a domestic vessel within limits of responsibility of a Coxswain	24
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMH1207B	Plan and navigate a short voyage within inshore limits	31
TDMMR3007B	Operate and carry out basic service checks on small vessel marine propulsion systems	9
TDMMR3107B	Operate and carry out basic servicing on auxiliary systems	9
TDMMR3207B	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	9
TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
Total		199

TDM30107 - Certificate III in Transport and Distribution (Maritime Operations) – Engineer Cadet

Qualification Title	Certificate III in Transport and Distribution (Maritime Operations)
Qualification Code	TDM30107
Qualification Packaging Rules	<p>Requirements for completion of the qualification: A successful outcome of twenty-two units of competency which must include:</p> <ul style="list-style-type: none"> - the seven (7) mandatory units listed, plus - at least fifteen (15) additional units (at least seven of which must be aligned at AQF Level 3) to specific additional maritime employment needs beyond the minimum mandatory requirements.

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
Elective Units		
TDMMB107C	Perform routine remedial, preventative and survey deck maintenance on a vessel	35
TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	12
TDMMF2307B	Operate emergency equipment and apply emergency procedures	8
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMO107A	Follow maritime security procedures	8
Elective Units for Engineer Cadet		
TDMMB2007B	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	90
TDMMF4107B	Carry out engineering calculations related to maintenance and operations	40
TDMMR2207B	Operate and maintain boiler systems	40
TDMMR2407B	Operate and maintain internal combustion engines and propulsion transmission systems	40
TDMMR2507B	Operate and maintain auxiliary machinery systems, including steering gear and refrigeration systems	20
TDMMR2607B	Operate, test and maintain marine electrical and control equipment	20
TDMMR3407B	Operate deck machinery	20
Total		450

TDM30107 - Certificate III in Transport and Distribution (Maritime Operations) – Deck Cadet

Qualification Title	Certificate III in Transport and Distribution (Maritime Operations)
Qualification Code	TDM30107
Qualification Packaging Rules	<p>Requirements for completion of the qualification: A successful outcome of twenty-two units of competency which must include:</p> <ul style="list-style-type: none"> - the seven (7) mandatory units listed, plus - at least fifteen (15) additional units (at least seven of which must be aligned at AQF Level 3) to specific additional maritime employment needs beyond the minimum mandatory requirements.

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
Elective Units		
TDMMB107C	Perform routine remedial, preventative and survey deck maintenance on a vessel	35
TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	12
TDMMF2307B	Operate emergency equipment and apply emergency procedures	8
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMO107A	Follow maritime security procedures	8
Elective Units for Deck Cadet		
TDMMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	21
TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	8
TDMMC907C	Manoeuvre a domestic vessel within limits of responsibility of a Coxswain	24
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMMF3507B	Contribute to maintaining a safe watch	35
TDMMH807B	Plan and navigate an offshore passage within limits of responsibility of a Master 5	45
TDMMR3307B	Perform rigging and lifting operations on board a vessel	42
Total		380

TDM30207 - Certificate III in Transport and Distribution (Marine Engine Driving - Grade 2)

Qualification Title	Certificate III in Transport and Distribution (Marine Engine Driving - Grade 2)
Qualification Code	TDM30207
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of seventeen units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMB1907B	Carry out basic hull servicing	9
TDMMB2907B	Recognise and correct deteriorated fittings and machinery	9
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF2707B	Prevent, control and fight fires on board a small vessel	8
TDMMF4007B	Carry out basic operational engineering calculations	20
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMR1807B	Operate deck machinery installed on a small vessel of less than 750 KW propulsion power	12
TDMMR1907B	Safely handle and stow explosive and flammable materials	3
TDMMR2707B	Operate and maintain marine internal combustion engines within the limits of responsibility of a Marine Engine Driver Grade 2	42
TDMMR2807B	Operate and maintain auxiliary systems on vessels within limits of responsibility of a Marine Engine Driver Grade 2	20
TDMMR2907B	Operate and maintain marine low and medium voltage electrical systems	20
TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMR6107A	Use and care for hand and power tools on a small vessel	36
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
Total		241

TDM30307 - Certificate III in Transport and Distribution (Maritime Operations - Integrated Rating)

Qualification Title	Certificate III in Transport and Distribution (Maritime Operations - Integrated Rating)
Qualification Code	TDM30307
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of twenty units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMB107C	Perform routine remedial, preventative and survey deck maintenance on a vessel	35
TDMMB2007B	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	90
TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2307B	Operate emergency equipment and apply emergency procedures	8
TDMMF3507B	Contribute to maintaining a safe watch	35
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMR3307B	Perform rigging and lifting operations on board a vessel	42
TDMMR3407B	Operate deck machinery	20
TDMMR4307B	Assist in mooring and anchor handling activities	10
TDMMR4407B	Assist in completion of deck operations and maintenance documentation	10
TDMMR4507B	Provide support in completing cargo and bunkering operations	21
TDMMR4607B	Assist in basic welding, brazing, cutting and machinery operations on a vessel	105
TDMMR4707B	Use and care for hand and power tools on a vessel	35
TDMMU407B	Ensure compliance with pollution prevention measures	6
[Specialist] Elective Units		
TDMME1007A	Transmit and receive information by marine VHF radio or telephone	14
TDMMO107A	Follow maritime security procedures	8
Total		573

The following skill set of knowledge modules are required for AMSA endorsement		
44306	Introduction to Ships and Ship Routines	21
57174	Training Vessel	64
27819	Tutorial (On Board Training [IR])	80

TDM30407 - Certificate III in Transport and Distribution (Coastal Maritime Operations - Master Class 5)

Qualification Title	Certificate III in Transport and Distribution (Coastal Maritime Operations - Master Class 5)
Qualification Code	TDM30407
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of twenty - two units of competency listed.

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMA1107B	Maintain the stability of a vessel using basic stability information	12
TDMMB4507A	Monitor condition and seaworthiness of a small vessel up to 24 metres	12
TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	12
TDMMB707B	Slip vessel and maintain hull	4
TDMMC807B	Manoeuvre a vessel within the limits of responsibility of a Master 5	6
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF4707B	Contribute to maintaining a safe watch on a domestic vessel	15
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMH1107B	Use radar and other electronic navigational aids to maintain safe navigation within limits of responsibility of a Master 5	25
TDMMH1307B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 5	9
TDMMH807B	Plan and navigate an offshore passage within limits of responsibility of a Master 5	45
TDMMR107B	Operate and maintain steering gear arrangements	4
TDMMR1807B	Operate deck machinery installed on a small vessel of less than 750 KW propulsion power	12
TDMMR307B	Operate fuel, fresh and sea water, bilge and fire pumping systems installed in a vessel	4
TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMR5507B	Perform seamanship, rigging and lifting operations on board a small domestic vessel	16
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
Total		269

TDM40207 - Certificate IV in Transport and Distribution (Marine Engine Driving - Grade 1)

Qualification Title	Certificate IV in Transport and Distribution (Marine Engine Driving - Grade 1)
Qualification Code	TDM40207
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of the nineteen units of competency listed. Additional units from those listed or relevant units from this or other Training Packages 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 skills sets, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMB3107B	Organise maintenance and repairs on a small vessel	40
TDMMB3507B	Employ damage control techniques for hull damage	6
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF2707B	Prevent, control and fight fires on board a small vessel	8
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF4107B	Carry out engineering calculations related to maintenance and operations	40
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMR1907B	Safely handle and stow explosive and flammable materials	3
TDMMR207B	Use and maintain deck equipment and machinery	16
TDMMR2407B	Operate and maintain internal combustion engines and propulsion transmission systems	40
TDMMR2507B	Operate and maintain auxiliary machinery systems, including steering gear and refrigeration systems	20
TDMMR2607B	Operate, test and maintain marine electrical and control equipment	20
TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMR6107A	Use and care for hand and power tools on a small vessel	36
TDMMR6207A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	105
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
Total		403

TDM40307 - Certificate IV in Transport and Distribution (Coastal Maritime Operations - Master Class 4)

Qualification Title	Certificate IV in Transport and Distribution (Coastal Maritime Operations - Master Class 4)
Qualification Code	TDM40307
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of twenty units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	21
TDMMMA907B	Prepare a cargo plan for cargo loading and unloading operations within limits of responsibility of a Master 4	12
TDMMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	12
TDMMMB607B	Monitor condition and seaworthiness of a coastal vessel up to 80 metres	21
TDMMC507B	Manoeuvre a vessel within limits of responsibility of a Master 4	12
TDMMC607B	Manage a propulsion unit using the appropriate engine systems and support services	18
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF3307B	Execute watch keeping arrangements and procedures on a small vessel	56
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMH2007A	Use radar and other wheelhouse equipment to maintain safe navigation within the limits of responsibility of a Master 4	54
TDMMH607B	Plan and conduct a coastal passage and determine position within limits of responsibility of a Master 4	60
TDMMH707B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 4	12
TDMML307B	Establish and maintain a harmonious workplace environment	15
TDMMR5507B	Perform seamanship, rigging and lifting operations on board a small domestic vessel	16
TDMMU407B	Ensure compliance with pollution prevention measures	6
Total		402

TDM50107 - Diploma of Transport and Distribution (Maritime Operations)

Qualification Title	Diploma of Transport and Distribution (Maritime Operations)
Qualification Code	TDM50107
Qualification Packaging Rules	<p>Requirements for completion of the qualification: A successful outcome of twenty-three units of competency which must include:</p> <ul style="list-style-type: none"> - the seven mandatory units listed, plus - at least sixteen additional units (at least seven of which must be aligned at AQF Level 5) to specific additional maritime employment needs beyond the minimum mandatory requirements.

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
[Specialist] Elective Units		
TDMMMA1707A	Determine the stability and trim of the vessel	70
TDMMMA807B	Monitor the care of cargo during a voyage	7
TDMMB4607A	Apply information on vessel structure to maintenance and seaworthiness	50
TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	8
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	10
TDMMME207B	Communicate using standard marine vocabulary	3
TDMMME307B	Transmit and receive information by visual signalling	7
TDMMME507B	Transmit and receive information by marine radio or telephone	25
TDMMF2107B	Control safe access to and on vessel	6
TDMMF3007B	Maintain a safe navigational watch	100
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMH1507A	Measure and observe weather conditions and interpret and apply to watchkeeping	30
TDMMH1607A	Determine position of the vessel	160
TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	35
TDMMH1907A	Plan a passage	60
TDMMH507B	Use radar and other bridge equipment to maintain safe navigation	120
TDMML307B	Establish and maintain a harmonious workplace environment	15
TDMMO107A	Follow maritime security procedures	8
Total		825

Unit Code	Unit Title	Nominal Hours
The following skill set of knowledge modules are required for AMSA endorsement		
44375	Occupational Health & Safety At Sea 250800	15
44354	Enabling Mathematics & Physics 250800	53
44376	Enabling Computing 250800	22

TDM50207 - Diploma of Transport and Distribution (Marine Engineering - Engineer Watchkeeper)

Qualification Title	Diploma of Transport and Distribution (Marine Engineering - Engineer Watchkeeper)
Qualification Code	TDM50207
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of twenty units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMB1207B	Fault-find, dismantle, maintain and repair shipboard plant and equipment	95
TDMMB1307B	Carry out shipboard fabrication and repair operations	96
TDMMB407B	Maintain seaworthiness of vessel	120
TDMME707B	Use English in written and oral form to perform engineering duties	20
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF307B	Manage business and legal requirements on a vessel	83
TDMMF3107B	Maintain a safe engineering watch	35
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	20
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMR1007B	Operate pumping systems and associated control systems	62
TDMMR1107B	Operate main and auxiliary machinery and associated control systems	100
TDMMR5907A	Operate steam propulsion plant and associated systems on steam vessels	90
TDMMR907B	Operate alternators, generators and control systems to supply shipboard electrical power	84
TDMMU407B	Ensure compliance with pollution prevention measures	6
Other Elective Units		
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
Total		1253

The following skill set of knowledge modules are required for AMSA endorsement		
44300	Marine Thermodynamics 1	51
44301	Marine Mechanics 1	51
44302	Marine Electrotechnology 1	51

An Engineer Watchkeeper must also be able to demonstrate competency in the eight basic engineering units listed below, either through completion of the appropriate engineering trade qualifications, or additional training and assessment, if required.		
MEM05001B	Perform manual soldering/desoldering - electrical/electronic components	36
MEM05004C	Perform routine oxy acetylene welding	18
MEM05006B	Perform brazing and/or silver soldering	18
MEM05007C	Perform manual heating and thermal cutting	18
MEM05015C	Weld using manual metal arc welding process	36
MEM07005B	Perform general machining	72
MEM18001C	Use hand tools	18
MEM18002B	Use power tools/hand held operations	18

TDM50307 - Diploma of Transport and Distribution (Maritime Operations - Deck Watchkeeper)

Qualification Title	Diploma of Transport and Distribution (Maritime Operations - Deck Watchkeeper)
Qualification Code	TDM50307
Qualification Packaging Rules	<p>Requirements for completion of the qualification: A successful outcome of twenty-six units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)</p> <p>Note: the educational requirements for a Master (Less than 500 GT) as described in marine Orders Part 3: Seagoing Qualifications (Version 6) are for completion of the Diploma of Transport & Distribution (Maritime Operations - Deck Watchkeeper) plus the completion of four additional units as detailed in the 'Optional Additional Units' section.</p>

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMA1707A	Determine the stability and trim of the vessel	70
TDMMA707B	Monitor the loading, stowage, security and unloading of cargo	28
TDMMA807B	Monitor the care of cargo during a voyage	7
TDMMB4607A	Apply information on vessel structure to maintenance and seaworthiness	50
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	10
TDMME207B	Communicate using standard marine vocabulary	3
TDMME307B	Transmit and receive information by visual signalling	7
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMME807C	Transmit and receive information by GMDSS subsystems and equipment	70
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2107B	Control safe access to and on vessel	6
TDMMF3007B	Maintain a safe navigational watch	100
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMMH1507A	Measure and observe weather conditions and interpret and apply to watchkeeping	30
TDMMH1607A	Determine position of the vessel	160
TDMMH1907A	Plan a passage	60
TDMMH507B	Use radar and other bridge equipment to maintain safe	120

Unit Code	Unit Title	Nominal Hours
	navigation	
TDMML307B	Establish and maintain a harmonious workplace environment	15
TDMMU407B	Ensure compliance with pollution prevention measures	6
[Specialist] Elective Units		
TDMMF2307B	Operate emergency equipment and apply emergency procedures	8
TDMMO107A	Follow maritime security procedures	8
Total		984

The following skill set of knowledge modules are required for AMSA endorsement		
44354	Enabling Mathematics & Physics 250800	53
44376	Enabling Computing 250800	22
44375	Occupational Health & Safety At Sea 250800	15

Optional Additional Skills Set for Master <500GT		
TDMMB4807A	Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	5
TDMMF607B	Organise and manage the provision of medical care on board a vessel	63
TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	35
TDMMML507A	Manage business and administration on vessels limited by tonnage or near coastal operations	13

TDM50407 - Diploma of Transport and Distribution (Coastal Marine Engineering - Engineer Class 3)

Qualification Title	Diploma of Transport and Distribution (Coastal Marine Engineering - Engineer Class 3)
Qualification Code	TDM50407
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of nineteen units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMB3707B	Fabricate simple shipboard components	50
TDMMB3807B	Dismantle, inspect, repair and reassemble vessel machinery	50
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF3807B	Establish engine room watchkeeping procedures on vessels of less than 3,000 kW propulsion power	20
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	20
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
TDMMR1907B	Safely handle and stow explosive and flammable materials	3
TDMMR207B	Use and maintain deck equipment and machinery	16
TDMMR2107B	Operate and maintain engines, machinery and auxiliary power sources on vessels of less than 3,000 kW propulsion power	20
TDMMR2207B	Operate and maintain boiler systems	40
TDMMR2307B	Operate and maintain batteries, starter motors and power distribution systems	15
TDMMR5407B	Carry out refueling and fuel transfer operations	4
TDMMU407B	Ensure compliance with pollution prevention measures	6
Additional Skills Set for AMSA Endorsement		
TDMMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	21
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF5607A	Observe personal safety and social responsibilities	12
Total		458

The following skill set of knowledge modules are required for AMSA endorsement		
44032	Practical Mathematics Med1	18

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.

MEM05004C	Perform routine oxy acetylene welding	18
MEM05006B	Perform brazing and/or silver soldering	18
MEM05007C	Perform manual heating and thermal cutting	18
MEM05015C	Weld using manual metal arc welding process	36
MEM18001C	Use hand tools	18
MEM18002B	Use power tools/hand held operations	18

TDM50507 - Diploma of Transport and Distribution (Coastal Maritime Operations - Master Class 3)

Qualification Title	Diploma of Transport and Distribution (Coastal Maritime Operations - Master Class 3)
Qualification Code	TDM50507
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of twenty-seven units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMA1707A	Determine the stability and trim of the vessel	70
TDMMA707B	Monitor the loading, stowage, security and unloading of cargo	28
TDMMA807B	Monitor the care of cargo during a voyage	7
TDMMB407B	Maintain seaworthiness of vessel	120
TDMMB4807A	Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	5
TDMMC407B	Manoeuvre the vessel and operate small power plants within limits of responsibility of a Master 3	35
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMME207B	Communicate using standard marine vocabulary	3
TDMME307B	Transmit and receive information by visual signalling	7
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMME807C	Transmit and receive information by GMDSS subsystems and equipment	70
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2107B	Control safe access to and on vessel	6
TDMMF2907B	Maintain a safe navigational watch on a coastal voyage	100
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMF607B	Organise and manage the provision of medical care on board a vessel	63
TDMMH1407A	Apply weather information when navigating a vessel within limits of responsibility of a Master 3	30
TDMMH1607A	Determine position of the vessel	160
TDMMH1907A	Plan a passage	60
TDMMH507B	Use radar and other bridge equipment to maintain safe navigation	120
TDMMML507A	Manage business and administration on vessels limited by tonnage or near coastal operations	13
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12

Unit Code	Unit Title	Nominal Hours
TDMMU407B	Ensure compliance with pollution prevention measures	6
[Specialist] Elective Units		
TDMMF2307B	Operate emergency equipment and apply emergency procedures	8
TDMMO107A	Follow maritime security procedures	8
Total		1091

The following skill set of knowledge modules are required for AMSA endorsement		
44354	Enabling Mathematics & Physics 250800	53
44376	Enabling Computing 250800	22
44375	Occupational Health & Safety At Sea 250800	15

Optional Additional Skills Set for Master <500GT		
TDMMB4807A	Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	5
TDMMF607B	Organise and manage the provision of medical care on board a vessel	63
TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	35
TDMML507A	Manage business and administration on vessels limited by tonnage or near coastal operations	13

TDM60107 - Advanced Diploma of Transport and Distribution (Maritime Operations)

Qualification Title	Advanced Diploma of Transport and Distribution (Maritime Operations)
Qualification Code	TDM60107
Qualification Packaging Rules	<p>Requirements for completion of the qualification: A successful outcome of thirty-two units of competency which must include:</p> <ul style="list-style-type: none"> - the seven mandatory units listed, plus - at least twenty-five additional units (at least seven of which must be aligned at AQF Level 6) to specific additional maritime employment needs beyond the minimum mandatory requirements.

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	6
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	8
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	2
[Specialist] Elective Units		
TDMMA1007B	Control trim, stability and stress	120
TDMMA107B	Plan and ensure safe loading, stowage, security and unloading of cargo	50
TDMMA207B	Plan and ensure safe care of cargo during the voyage	20
TDMMA307B	Plan and monitor the carriage of dangerous cargoes	20
TDMMB4307A	Monitor and manage the seaworthiness of the vessel	88
TDMMC107B	Manoeuvre and handle a vessel of 500 gross tonnage or more under all conditions	40
TDMMC207B	Operate remote controls of propulsion plant and engineering systems	53
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	10
TDMMF107B	Assist in search and rescue operations	16
TDMMF2607B	Establish watchkeeping arrangements and procedures	35
TDMMF3007B	Maintain a safe navigational watch	100
TDMMF307B	Manage business and legal requirements on a vessel	83
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	20
TDMMH107B	Plan a voyage and conduct navigation	20
TDMMH1507A	Measure and observe weather conditions and interpret and apply to watchkeeping	30
TDMMH1607A	Determine position of the vessel	160
TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	35
TDMMH1807A	Apply command navigation procedures on vessels (unlimited)	77
TDMMH1907A	Plan a passage	60

Unit Code	Unit Title	Nominal Hours
TDMMH207B	Determine position of the vessel and the accuracy of the resultant position	90
TDMMH307B	Manage safe navigation through the use of radar and other navigational aids	30
TDMMH507B	Use radar and other bridge equipment to maintain safe navigation	120
TDMMH907B	Forecast weather and oceanographic conditions	63
TDMML407A	Manage administration of the vessel and its personnel	53
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
Total		1486

The following skill set of knowledge modules are required for AMSA endorsement		
65336	Analyse data and communicate complex information	40
65338	Apply management theory and practice	60
44319	Marine Computations	42

TDM60207 - Advanced Diploma of Transport and Distribution (Marine Engineering Class 1)

Qualification Title	Advanced Diploma of Transport and Distribution (Marine Engineering Class 1)
Qualification Code	TDM60207
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of twenty-eight units of competency listed - plus be able to demonstrate competency in the eight basic engineering units also listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMA1007B	Control trim, stability and stress	120
TDMMB3907A	Manage the testing, detection of faults, maintenance and restoration of electrical machinery and equipment to operating condition on vessels of unlimited propulsion power	45
TDMMB4007A	Manage the testing, detection of faults, maintenance and restoration of electronic control equipment to operating condition on vessels of unlimited propulsion power	31
TDMMB807B	Detect and identify the cause of machinery malfunctions and repair faults on vessels of unlimited propulsion power	50
TDMMB907B	Manage safe maintenance and repair procedures on vessels of unlimited propulsion power	66
TDMME707B	Use English in written and oral form to perform engineering duties	20
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2207B	Maintain safety of engine equipment, systems and services on vessels of unlimited propulsion power	30
TDMMF2507B	Ensure safe working practices	18
TDMMF2607B	Establish watchkeeping arrangements and procedures	35
TDMMF307B	Manage business and legal requirements on a vessel	83
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	20
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMML407A	Manage administration of the vessel and its personnel	53
TDMMR407B	Operate electrical machinery and electronic control equipment	76

Unit Code	Unit Title	Nominal Hours
	on vessels of unlimited propulsion power	
TDMMR507B	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	20
TDMMR607B	Manage the operation, monitoring and evaluation of the performance of engines on vessels of unlimited propulsion power	70
TDMMR707B	Plan and schedule operations on vessels of unlimited propulsion power	20
TDMMR807B	Manage the start up and shut down of main propulsion and auxiliary machinery and associated systems on vessels of unlimited propulsion power	70
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
Other Elective Units		
TDMMR5707A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels of unlimited propulsion power	103
Total		1150

An Engineer Class 1 must also be able to demonstrate competency in the eight basic engineering units listed below, either through completion of the appropriate engineering trade qualifications, or additional training and assessment, if required.		
MEM05001B	Perform manual soldering/desoldering – electrical/electronic components	36
MEM05004C	Perform routine oxy acetylene welding	18
MEM05006B	Perform brazing and/or silver soldering	18
MEM05007C	Perform manual heating and thermal cutting	18
MEM05015C	Weld using manual metal arc welding process	36
MEM07005B	Perform general machining	72
MEM18001C	Use hand tools	18
MEM18002B	Use power tools/hand held operations	18

TDM60307 – Advanced Diploma of Transport and Distribution (Marine Engineering Class 2)

Qualification Title	Advanced Diploma of Transport and Distribution (Marine Engineering Class 2)
Qualification Code	TDM60307
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of twenty-eight units of competency listed - plus be able to demonstrate competency in the eight basic engineering units also listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMA1007B	Control trim, stability and stress	120
TDMMB1507B	Detect and identify the cause of machinery malfunctions and repair faults on vessels over 750 kW propulsion power	70
TDMMB1607B	Organise safe maintenance and repair procedures on vessels of over 750 kW of propulsion power	57
TDMMB4107A	Test, detect faults and maintain and restore electrical machinery and equipment to operating condition on vessels over 750 kW propulsion power	36
TDMMB4207A	Test, detect faults and maintain and restore electronic control equipment to operating condition on vessels over 750 kW propulsion power	24
TDMME707B	Use English in written and oral form to perform engineering duties	20
TDMMF1007B	Provide elementary first aid	20
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2407B	Maintain safety of engine equipment, systems and services on vessels over 750 kW propulsion power	40
TDMMF2507B	Ensure safe working practices	18
TDMMF2607B	Establish watchkeeping arrangements and procedures	35
TDMMF307B	Manage business and legal requirements on a vessel	83
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	14
TDMMF5907A	Work safely in enclosed spaces on a vessel	6
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21
TDMML407A	Manage administration of the vessel and its personnel	53
TDMMR1307B	Operate electrical machinery and electronic control equipment on vessels over 750 kW propulsion power	80
TDMMR1407B	Manage fuel, bilge and ballast operations procedures on	20

Unit Code	Unit Title	Nominal Hours
	vessels over 750 kW propulsion power	
TDMMR1507B	Operate, monitor and evaluate engine performance on vessels over 750 kW propulsion power	100
TDMMR1607B	Plan and schedule operations on vessels over 750 kW propulsion power	20
TDMMR1707B	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels over 750 kW propulsion power	100
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
Total		1096

The following skill set of knowledge modules are required for AMSA endorsement		
44316	Marine Electrotechnology 2	57
44332	Marine Electrotechnology 3	103
44315	Marine Mechanics 2	57
44331	Marine Mechanics 3	103
44314	Marine Thermodynamics 2	57
44330	Marine Thermodynamics 3	103

An Engineer Class 2 must also be able to demonstrate competency in the eight basic engineering units listed below, either through completion of the appropriate engineering trade qualifications, or additional training and assessment, if required.		
MEM05001B	Perform manual soldering/desoldering - electrical/electronic components	36
MEM05004C	Perform routine oxy acetylene welding	18
MEM05006B	Perform brazing and/or silver soldering	18
MEM05007C	Perform manual heating and thermal cutting	18
MEM05015C	Weld using manual metal arc welding process	36
MEM07005B	Perform general machining	72
MEM18001C	Use hand tools	18
MEM18002B	Use power tools/hand held operations	18

TDM60407 - Advanced Diploma of Transport and Distribution (Maritime Operations - Master Unlimited)

Qualification Title	Advanced Diploma of Transport and Distribution (Maritime Operations - Master Unlimited)
Qualification Code	TDM60407
Qualification Packaging Rules	Requirements for completion of the qualification: A successful outcome of thirty-five units of competency listed. Additional units from those listed below or relevant units from this or other Training Packages 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 a skills set, leading to a National Statement of Attainment as described elsewhere in the Training Package)

Unit Code	Unit Title	Nominal Hours
Mandatory Units		
TDMMA1007B	Control trim, stability and stress	120
TDMMA107B	Plan and ensure safe loading, stowage, security and unloading of cargo	50
TDMMA207B	Plan and ensure safe care of cargo during the voyage	20
TDMMA307B	Plan and monitor the carriage of dangerous cargoes	20
TDMMA707B	Monitor the loading, stowage, security and unloading of cargo	28
TDMMA807B	Monitor the care of cargo during a voyage	7
TDMMB4307A	Monitor and manage the seaworthiness of the vessel	88
TDMMC107B	Manoeuvre and handle a vessel of 500 gross tonnage or more under all conditions	40
TDMMC207B	Operate remote controls of propulsion plant and engineering systems	53
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	10
TDMME207B	Communicate using standard marine vocabulary	3
TDMME307B	Transmit and receive information by visual signalling	7
TDMME507B	Transmit and receive information by marine radio or telephone	25
TDMME807C	Transmit and receive information by GMDSS subsystems and equipment	70
TDMMF1007B	Provide elementary first aid	20
TDMMF107B	Assist in search and rescue operations	16
TDMMF1107B	Survive at sea in the event of vessel abandonment	16
TDMMF1807B	Apply medical first aid on board a vessel	42
TDMMF1907B	Operate survival craft and other lifesaving appliances	37
TDMMF2607B	Establish watchkeeping arrangements and procedures	35
TDMMF3007B	Maintain a safe navigational watch	100
TDMMF307B	Manage business and legal requirements on a vessel	83
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	7
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	20
TDMMF5607A	Observe personal safety and social responsibilities	12
TDMMF607B	Organise and manage the provision of medical care on board a vessel	63
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21

Unit Code	Unit Title	Nominal Hours
TDMMH107B	Plan a voyage and conduct navigation	20
TDMMH1807A	Apply command navigation procedures on vessels (unlimited)	77
TDMMH207B	Determine position of the vessel and the accuracy of the resultant position	90
TDMMH307B	Manage safe navigation through the use of radar and other navigational aids	30
TDMMH907B	Forecast weather and oceanographic conditions	63
TDMML407A	Manage administration of the vessel and its personnel	53
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
Total		1391