

MARITIME TRAINING PACKAGE

TDM01

IMPLEMENTATION GUIDE

Western Australian Department of Education and Training

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Foreword

This Implementation Guide has been generated to enable the stakeholders in the Maritime Industry in Western Australia to participate in the management implementation of the National Maritime Training Package TDM01.

The Guide has been developed with cooperation from Registered Training Organisations (RTOs) delivering maritime qualifications and key stakeholders in industry sectors. To achieve maximum advantage from the Guide, its implementation should occur in a planned manner.

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

The Maritime Training Package TDM01 was endorsed by Ministers for vocational education and training on 31 August 2001.

Acknowledgements

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Silvio Ranieri	Transport & Storage Industry Training Council
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Introduction

This Guide provides information that will facilitate the implementation of the Maritime Training Package TDM01 in Western Australia. This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing accredited courses to the new 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 TDM01.

The Guide provides information on:

- Transition arrangements
- Licensing requirements
- Assessment
- Funding
- Learning resources and assessment materials
- An indication of availability of supporting materials for delivery of qualifications
- A mapping of expired courses to Training Package qualifications
- A mapping of Traineeship and Apprenticeship courses to Training Package qualifications
- A set of appropriate sample, or model, training programs at each AQF level

Obtaining the Training Package

The Maritime Training Package TDM01 can be purchased from:

Australian Training Products

Level 25, 150 Lonsdale Street
MELBOURNE VICTORIA 3000

Telephone: (03) 9655 0600

Facsimile: (03) 9639 4684

Email: sales@atpl.net.au

Web: www.atpl.net.au

or

Transport & Logistics Industry Skills Council Ltd trading as

Transport & Distribution Training Australia

Level 3, 33 Walsh Street

WEST MELBOURNE VICTORIA 3003

Telephone: (03) 9320 4242

Facsimile: (03) 9320 4243

Email: tdt@tdtaustralia.com

Web: <http://www.tdtaustralia.com>

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/

Note: full texts of National Training Packages are not published on the NTIS website, merely the qualifications and the Units of Competence

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

Overview of the Training Package

The Maritime Training Package contains:

- 158 units of competence
- 11 qualifications ranging from AQF levels 1 to 6

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, wanted to complete an integrated assessment to achieve a certificate qualification.

The RTO will be required to make special arrangements with the learner to issue the final qualification. This process may involve an invitation to the employer (if applicable) to participate in the assessment process 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 competence 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

There are currently licensing requirements for all qualifications in the Maritime Training Package TDM01. To obtain licences the following conditions apply:

- minimum age requirements
- minimum eyesight requirements
- minimum Medical requirements
- minimum qualifying sea service recorded in a properly completed [Record of Service book](#)
- satisfactory completion of the appropriate compulsory short courses or College written exam
- successful completion of an oral examination conducted by the appropriate licensing body

Achieving competence through the Training Package qualification does not automatically allow the person to undertake these activities in the workplace nor does it automatically qualify the person as meeting the licensing standards.

Please see the following websites for further details regarding Licensing Requirements:

Department of Planning and Infrastructure - <http://www.dpi.wa.gov.au>
Australian Maritime Safety Authority - <http://www.amsa.gov.au/>

Assessment Guidelines

Assessment Guidelines are one of the endorsed components of the Maritime Training Package TDM01. See the Assessment Guidelines book of the Maritime Training Package TDM01.

Learning Resources and Assessment Materials

Learning resources and assessment materials make up the non-endorsed components of the Training Package. There is a range of learning resources for the Maritime Training Package currently available.

A number of assessment related resources are also available from:

- The Australian National Training Authority;
- Australian Training Products;
- WestOne Services;
- Transport & Storage Industry Training Council
- The VET Teaching and Learning Branch of the Department of Education and Training

Trainers should consider the use of existing resources and/or resources sourced from a third party carefully, as some may need to be modified to suit the learning and assessment strategy developed by the RTO. In particular, resources previously used for training and assessment against accredited modules may not be suitable for the Units of Competence without modification.

For further details contact either *Australian Training Products* or *Transport & Storage Industry Training Council*. Contact details appear in the section [Obtaining The Training Package](#) on page 5 of this Guide.

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the Maritime Training Package TDM01.

National Code	Training Package Qualification	Nom Hrs	TAFE ID
MARITIME OPERATIONS			
TDM10101	Certificate I in Transport and Distribution (Maritime Operations)	73	S205
TDM20101	Certificate II in Transport and Distribution (Maritime Operations)	212	S206
TDM30101	Certificate III in Transport and Distribution (Maritime Operations)	288	S208
TDM40101	Certificate IV in Transport and Distribution (Maritime Operations)	665	S210
TDM50101	Diploma of Transport and Distribution (Maritime Operations)	927	S212
TDM60101	Advanced Diploma of Transport and Distribution (Maritime Operations)	1405	S214
MARINE ENGINEERING			
TDM20201	Certificate II in Transport and Distribution (Marine Engine Driving)	150	S207
TDM30201	Certificate III in Transport and Distribution (Marine Engine Driving)	255	S209
TDM40201	Certificate IV in Transport and Distribution (Marine Engineering)	368	S211
TDM50201	Diploma of Transport and Distribution (Marine Engineering)	900	S213
TDM60201	Advanced Diploma of Transport and Distribution (Marine Engineering)	1291	S215

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the Maritime Training Package TDM01.

NATIONAL ID	COMPETENCY TITLE	WA HOURS
HANDLING CARGO AND VESSEL STABILITY		
TDMMA101A	Plan and ensure safe loading, stowage, security and unloading of cargo	40
TDMMA201A	Plan and ensure safe care of cargo during a voyage	12
TDMMA301A	Plan and monitor the carriage of dangerous cargoes	12
TDMMA401A	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
TDMMA601A	Manage procedures for the handling, loading and discharging of oil cargoes	40
TDMMA701A	Monitor the loading, stowage, security and unloading of cargo	37
TDMMA801A	Monitor the care of cargo during a voyage	7
TDMMA901A	Prepare a cargo plan for cargo loading and unloading operations	12
TDMMA1001A	Control trim, stability and stress	215
TDMMA1101A	Maintain the stability of a vessel using basic stability information	12
TDMMA1201A	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
EQUIPMENT CHECKING AND MAINTENANCE		
TDMMB101A	Perform routine remedial, preventative and survey deck maintenance on a vessel Replaced by TDMMB101B	35
TDMMB101B	Perform routine remedial, preventative and survey deck maintenance on a vessel	35
TDMMB401A	Maintain seaworthiness of vessel	110
TDMMB501A	Manage the maintenance of the vessel	20
TDMMB601A	Monitor condition and seaworthiness of a small vessel	21
TDMMB701A	Slip vessel and maintain hull	4
TDMMB801A	Detect and identify the cause of machinery malfunctions and repair faults on vessels of unlimited propulsion power	103
TDMMB901A	Organise safe maintenance and repair procedures on vessels of unlimited propulsion power	66
TDMMB1001A	Test, detect faults and maintain and restore electrical machinery and electrical and electronic control equipment to operating condition on vessels of unlimited propulsion power	76
TDMMB1201A	Fault-find, dismantle, maintain and repair shipboard plant and equipment	95
TDMMB1301A	Carry out shipboard fabrication and repair operations	96
TDMMB1501A	Detect and identify the cause of machinery malfunctions and repair faults on vessels over 750kW propulsion power	57
TDMMB1601A	Organise safe maintenance and repair procedures on vessels of over 750 kW propulsion power	57
TDMMB1701A	Test, detect faults and maintain and restore electrical machinery and electrical and electronic control equipment to operating condition on vessels over 750 kW	84
TDMMB1901A	Carry out basic hull servicing	9
TDMMB2001A	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	100
TDMMB2901A	Recognise and correct deteriorated fittings and machinery	9
TDMMB3101A	Organise maintenance and repairs on a small vessel	40
TDMMB3501A	Employ damage control techniques for hull damage	6

NATIONAL ID	COMPETENCY TITLE	WA HOURS
TDMMB3601A	Prepare a small vessel's machinery for sea	12
TDMMB3701A	Fabricate simple shipboard components	50
TDMMB3801A	Dismantle, inspect, repair and reassemble vessel machinery	50
MANOEUVRE VESSEL		
TDMMC101A	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
TDMMC301A	Manoeuvre and handle the vessel in normal conditions	25
TDMMC401A	Manoeuvre the vessel and operate small power plants	35
TDMMC501A	Manoeuvre a vessel less than 80metres in length in any prevailing conditions	12
TDMMC601A	Manage a propulsion unit using the appropriate engine systems and support services	18
TDMMC701A	Apply seamanship skills and techniques when operating a small vessel Replaced by TDMMC701B	20
TDMMC701B	Apply seamanship skills and techniques when operating a small domestic vessel	6
TDMMC801A	Manoeuvre a vessel less than 24 metres in length within inshore limits	6
TDMMC901A	Manoeuvre a commercial vessel of less than 12 metres in length within inshore limits Replaced by TDMMC901B	24
TDMMC901B	Manoeuvre a domestic vessel of less than 12 metres in length operating within inshore limits	24
TDMMC1001A	Steer a commercial vessel under the direction of the officer in charge of the watch Replaced by TDMMC1001B	8
TDMMC1001B	Steer a domestic vessel under the direction of the master or officer in charge of the watch	8
COMMUNICATIONS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMME201A	Communicate using standard marine vocabulary	7
TDMME301A	Transmit and receive information by visual signalling	12
TDMME501A	Transmit and receive information by marine radio or telephone	25
TDMME701A	Use English in written and oral form to perform engineering duties	20
TDMME801A	Transmit and receive information by GMDSS subsystems and equipment Replaced by TDMMME801B	70
TDMME801B	Transmit and receive information by GMDSS subsystems and equipment on a vessel	70
OPERATIONAL QUALITY AND SAFETY		
TDMMF101A	Assist in search and rescue operations	8
TDMMF201A	Respond to navigational emergencies	24
TDMMF301A	Monitor compliance with legislative requirements and measures to ensure safety of life at sea	95
TDMMF401A	Maintain the operational condition of life-saving, fire fighting and other safety systems	7
TDMMF501A	Develop emergency and damage control plans and handle emergency situations Replaced by TDMMF501B	12
TDMMF501B	Develop emergency and damage control plans and handle emergency situations on board a vessel	12
TDMMF601A	Organise and manage the provision of medical care on board a vessel	63
TDMMF701A	Observe safe working practices Replaced by TDMMF701B	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801A	Comply with emergency procedures Replaced by TDMMF801B	4

NATIONAL ID	COMPETENCY TITLE	WA HOURS
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF901A	Fight and extinguish fires	14
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF1301A	Manage marine fire-fighting and prevention activities	21
TDMMF1401A	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
TDMMF1601A	Plan and implement special safety, maintenance and emergency procedures for oil tankers	40
TDMMF1701A	Respond to distress signal at sea	10
TDMMF1801A	Apply medical first aid on board a vessel	42
TDMMF1901A	Operate life-saving appliances	37
TDMMF2001A	Prevent, control and fight fires on board a vessel	12
TDMMF2101A	Control safe access to and on vessel	10
TDMMF2201A	Maintain safety of engine equipment, systems and services on vessels of unlimited propulsion power	84
TDMMF2301A	Operate emergency equipment and apply emergency procedures	10
TDMMF2401A	Maintain safety of engine equipment, systems and services on vessels over 750 kW propulsion power	40
TDMMF2501A	Ensure safe working practices	76
TDMMF2601A	Establish watchkeeping arrangements and procedures	24
TDMMF2701A	Prevent, control and fight fires on board a small vessel	14
TDMMF2901A	Maintain a safe navigational watch on a coastal voyage	50
TDMMF3001A	Maintain a safe navigational watch	50
TDMMF3101A	Maintain a safe engineering watch	95
TDMMF3201A	Apply regulations when operating a small vessel Replaced by TDMMF3201B	6
TDMMF3201B	Apply domestic regulations when operating a small vessel	6
TDMMF3301A	Execute watchkeeping arrangements and procedures on a small vessel	42
TDMMF3501A	Contribute to maintaining a safe watch	35
TDMMF3701A	Manage vessel operations	28
TDMMF3801A	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
TDMMF4001A	Carry out basic operational engineering calculations	20
TDMMF4101A	Carry out engineering calculations related to maintenance and operations	40
TDMMF4301A	Carry out fast rescue craft (FRC) operations	40
TDMMF4401A	Apply safety regulations on roll-on roll-off passenger vessels	40
TDMMF4502A	Operate breathing apparatus on board a vessel	15
TDMMF4702A	Contribute to maintaining a safe watch on a domestic vessel	15
TDMMF4802A	Execute watchkeeping arrangements and procedures on a domestic vessel	42
TDMMF5302A	Fight and extinguish fires on board a small vessel	4
NAVIGATION		
TDMMH101A	Plan voyage and conduct navigation	100
TDMMH201A	Determine position of the vessel and the accuracy of the resultant position	100
TDMMH301A	Manage safe navigation through the use of radar and other navigational aids	30

NATIONAL ID	COMPETENCY TITLE	WA HOURS
TDMMH401A	Plan and conduct a passage and determine position	210
TDMMH501A	Use radar and other electronic aids to maintain safe navigation	92
TDMMH601A	Plan and conduct a coastal passage and determine position	90
TDMMH701A	Apply weather information when navigating a small vessel	12
TDMMH801A	Plan and navigate an inshore passage	45
TDMMH901A	Forecast weather and oceanographic conditions	63
TDMMH1001A	Navigate a high speed vessel	40
TDMMH1102A	Use radar to maintain safe navigation	25
TDMMH1202A	Plan and navigate a short voyage within inshore limits	23
TDMMH1302A	Apply weather information when navigating a small vessel	12
HUMAN RESOURCES		
TDMML101A	Organise and manage the crew	25
TDMML201A	Contribute to effective human relationships on board a vessel	4
TDMML301A	Establish and maintain a harmonious workplace environment	15
CARRY OUT OPERATIONS ON EQUIPMENT AND SYSTEMS		
TDMMR101A	Operate and maintain steering gear arrangements	4
TDMMR201A	Use and maintain deck equipment and machinery	4
TDMMR301A	Operate fuel, fresh and ballast water, bilge and fire pumping systems installed in a vessel	10
TDMMR401A	Operate electrical machinery and electronic control equipment on vessels of unlimited propulsion power	76
TDMMR501A	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	38
TDMMR601A	Operate, monitor and evaluate engine performance on vessels of unlimited propulsion power	103
TDMMR701A	Plan and schedule operations on vessels of unlimited propulsion power	103
TDMMR801A	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels of unlimited propulsion power	20
TDMMR901A	Operate alternators, generators and control systems to supply shipboard electrical power	84
TDMMR1001A	Operate pumping systems and associated control systems	20
TDMMR1101A	Operate main and auxiliary machinery and associated control systems	65
TDMMR1301A	Operate electrical machinery & electronic control equipment on vessels over 750 kW propulsion power	84
TDMMR1401A	Manage fuel, bilge and ballast operations procedures on vessels over 750 kW propulsion power	25
TDMMR1501A	Operate, monitor and evaluate engine performance on vessels over 750 kW propulsion power	40
TDMMR1601A	Plan and schedule operations on vessels over 750 kW propulsion power	10
TDMMR1701A	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels over 750 kW propulsion power	20
TDMMR1801A	Operate deck machinery installed on a small vessel	12
TDMMR1901A	Safely handle and stow explosive and flammable materials	3
TDMMR2101A	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
TDMMR2301A	Operate and maintain batteries, starter motors and power distribution systems	15
TDMMR2401A	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

NATIONAL ID	COMPETENCY TITLE	WA HOURS
TDMMR2601A	Operate, test, and maintain marine electrical and control equipment	20
TDMMR2701A	Operate and maintain marine internal combustion engines on vessels of 750 kW propulsion power or less	30
TDMMR2801A	Operate and maintain auxiliary systems on vessels up to 750 kW propulsion power	30
TDMMR2901A	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
TDMMR3101A	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
TDMMR3301A	Perform rigging and lifting operations on board a vessel	42
TDMMR3401A	Operate deck machinery	20
TDMMR4301A	Assist in mooring and anchor handling activities	10
TDMMR4401A	Assist in completion of deck operations and maintenance documentation	10
TDMMR4501A	Provide support in completing cargo and bunkering operations	21
TDMMR4601A	Assist in basic welding, brazing, cutting and machining operations on a vessel	105
TDMMR4701A	Use and care for hand and power tools carried on a vessel	35
TDMMR5001A	Carry out basic food handling, preparation, stock control and storage on an off-shore support vessel or rig	30
TDMMR5101A	Carry out windlass operations on a rig	40
TDMMR5201A	Carry out dogging and cargo handling operations at a rig	15
TDMMR5301A	Carry out anchor handling, towage and supply duties at a rig	20
TDMMR5402A	Carry out refuelling and fuel transfer operations	4
TDMMR5502A	Perform rigging and lifting operations on board a small domestic vessel	4
ENVIRONMENT		
TDMMU101A	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
TDMMU401A	Ensure compliance with pollution prevention measures	6
TDMMU502A	Ensure compliance with environmental considerations in a small domestic vessel	2

Imported Units of Competency and Nominal Hours

The following table provides a summary of the imported units of competency and nominal hours in the Maritime Training Package TDM01.

NATIONAL ID	COMPETENCY TITLE	WA HOURS	STATE ID
Business Services BSB01			
BSXFMI304A	Participate in, lean and facilitate work teams	40	Y0010
BSXFMI306A	Manage workplace information	40	Y0016
BSXFMI307A	Manage quality customer service	40	Y0019
BSXFMI403A	Establish and manage effective workplace relationships	50	Y0008
BSXFMI404A	Participate in, lead and facilitate work teams	50	Y0011
BSXFMI405A	Manage operations to achieve planned outcomes	50	Y0014
BSXFMI406A	Manage workplace information	50	Y0017
BSXFMI409A	Implement and monitor continuous improvement systems and processes	50	Y0026
BSXFMI410A	Facilitate and capitalise on change and innovation	50	Y0029
BSXFMI503A	Establish and manage effective workplace relationships	60	Y0009
BSXFMI504A	Participate in, lead and facilitate work teams	60	Y0012
BSXFMI505A	Manage operations to achieve planned outcomes	60	Y0034
BSXFMI506A	Manage workplace information	60	Y0018
BSXFMI509A	Implement and monitor continuous improvement systems and processes	60	Y0035
BSXFMI510A	Facilitate and capitalise on change and innovation	60	Y0036
Assessment & Workplace Training BSZ98			
BSZ402A	Conduct assessment	15	C0085
BSZ503A	Design and establish the assessment system	40	C0094
Metals and Engineering Industry MEM98			
MEM5.1AA	Manual soldering/desoldering - electrical/electronic components	36	M0246
MEM5.4AB	Perform routine oxy acetylene welding	18	M1754
MEM5.6AA	Perform brazing and/or silver soldering	18	M0251
MEM5.7AB	Manual heating and thermal cutting	18	M1350
MEM7.5AA	Perform general machining	72	M0289
MEM18.1AB	Use hand tools	18	M1356
MEM18.2AA	Use power tools/hand held operations	18	M0411
Seafood Industry SFI00			
SFISHIP202A	Contribute to safe navigation	10	S1708
National Outdoor Recreation Industry SRO99			
SROYSB001A	Use basic skills to sail a small boat in controlled conditions	15	C1681
SROYSB002A	Sail a small boat in light to moderate conditions using enhanced skills	20	C1682
SROYSB003A	Sail a small boat in moderate conditions using enhanced skills	20	C1683
Hospitality THH02			
THHADCC02B	Plan, prepare and display a buffet	36	E2051
THHBCC00B	Prepare sandwiches	6	E2057
THHBKA01A	Organise and prepare food	20	E0071
THHBKA04A	Clean and maintain premises	10	E0074
THHCOR03A	Follow health, safety and security procedures	5	E0003

Interim Training Package Qualifications to be replaced by Training Package Qualifications as per the Supplement November 2003.

The following table lists qualifications replaced by the Maritime Training Package Supplement.

MARITIME OPERATIONS	
Training Package Qualification Interim	Training Package Qualification as per Supplement
TDM10101 Certificate I in Transport and Distribution (Maritime Operations) Nominal hours: 70	TDM10101 Certificate I in Transport and Distribution (Maritime Operations) Nominal hours: 73
TDM20101 Certificate II in Transport and Distribution (Maritime Operations) Nominal hours: 140	TDM20101 Certificate II in Transport and Distribution (Maritime Operations) Nominal hours: 149 – 212
TDM30101 Certificate III in Transport and Distribution (Maritime Operations) Nominal hours: 249	TDM30101 Certificate III in Transport and Distribution (Maritime Operations) Nominal hours: 150 – 288
TDM40101 Certificate IV in Transport and Distribution (Maritime Operations) Nominal hours: 293	TDM40101 Certificate IV in Transport and Distribution (Maritime Operations) Nominal hours: 511 – 665
TDM50101 Diploma Of Transport & Distribution (Maritime Operations) Nominal hours: 947	TDM50101 Diploma Of Transport & Distribution (Maritime Operations) Nominal hours: 616 – 927
TDM60101 Advanced Diploma Of Transport & Distribution (Maritime Operations) Nominal hours: 923	TDM60101 Advanced Diploma Of Transport & Distribution (Maritime Operations) Nominal hours: 991 – 1405

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Training Package Qualification Interim	Training Package Qualification as per Supplement
TDM20201 Certificate II in Transport and Distribution (Marine Engine Driving) Nominal hours: 140	TDM20201 Certificate II in Transport and Distribution (Marine Engine Driving) Nominal hours: 87 – 150
TDM30201 Certificate III in Transport and Distribution (Marine Engine Driving) Nominal hours: 141	TDM30201 Certificate III in Transport and Distribution (Marine Engine Driving) Nominal hours: 123 – 255
TDM40201 Certificate IV in Transport and Distribution (Marine Engineering) Nominal hours: 168	TDM40201 Certificate IV in Transport and Distribution (Marine Engineering) Nominal hours: 237 – 368
TDM50201 Diploma of Transport and Distribution (Marine Engineering) Nominal hours: 918	TDM50201 Diploma of Transport and Distribution (Marine Engineering) Nominal hours: 785 – 900
TDM60201 Advanced Diploma of Transport and Distribution (Marine Engineering) Nominal hours: 2424	TDM60201 Advanced Diploma of Transport and Distribution (Marine Engineering) Nominal hours: 1218 – 1291

Examples of Training Package Programs

Units of competence 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.

A qualification can also be customised to accommodate a learner's chosen career pathway.

When packaged together these units need to provide a coherent qualification, industries of the competencies necessary to fulfil occupational and licensing requirements.

Obtaining a Qualification and or Licence

All competencies must be completed, as per the Training Package requirements, to obtain the qualification. Please see the Training Package for the Qualification Packaging Rules and a full list of electives.

To obtain certificate of competency from a licensing authority other requirements set by the relevant authority must be completed. Further details appear in the section [Licensing Requirements](#) on page 7 of this Guide.

Training Program #1:

TDM10101 – CERTIFICATE I IN TRANSPORT & DISTRIBUTION (MARITIME OPERATIONS)

Qualification Title	Certificate I in Transport & Distribution (Maritime Operations)
Qualification Code	TDM10101
Qualification Summary	This qualification will provide you with introductory practical skills and knowledge to enter the maritime industry. You will learn skills in how to understand shipboard orders, follow safe work practices, and respond to emergency situations to undertake work on domestic or commercial vessels
Qualification Packaging Rules	<p>Requirements for completion of the qualification:</p> <p>A successful assessment outcome of a total of 9 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 1 unit chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF5302A	Fight and extinguish fires on board a commercial vessel	4
TDMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Carry out Operations on Equipment and Systems		
TDMMR4301A	Assist in mooring and anchor handling activities	10
TOTAL		73

Training Program #2:

TDM20101 – CERTIFICATE II IN TRANSPORT & DISTRIBUTION (MARITIME OPERATIONS)

Qualification Title	Certificate II in Transport & Distribution (Maritime Operations)
Qualification Code	TDM20101
Qualification Summary	This qualification will provide you with the practical skills and knowledge to safely operate a commercial vessel of less than 12 metres in length. You will learn skills in essential shipboard safety and the coastal maritime industry for entry level seagoing employment. You will learn skills in nautical navigation, marine radio operation, first aid, and safety at sea.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 19 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 11 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF5302A	Fight and extinguish fires on board a commercial vessel	4
TDMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Manoeuvre Vessel		
TDMMC701B	Apply seamanship skills and techniques when operating a small domestic vessel	6
TDMMC901B	Manoeuvre a domestic vessel of less than 12 metres in length operating within inshore limits	24
Communications		
TDMME501A	Transmit and receive information by marine radio or telephone	25
Operational Quality and Safety		
TDMMF201A	Respond to navigational emergencies	24
TDMMF3201B	Apply domestic regulations when operating a small vessel	6
Navigation		
TDMMH1202A	Plan and navigate a short voyage within inshore limits	23
TDMMH1302A	Apply weather information when navigating a small vessel	12
Carry Out Operations on Equipment and Systems		
TDMMR3001A	Operate and carry out basic service checks on small vessel marine propulsion systems	9
TDMMR3101A	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
Environment		
TDMMU502A	Ensure compliance with environmental considerations in a small domestic vessel	2
TOTAL		212

Training Program #3:

TDM30101 – CERTIFICATE III IN TRANSPORT & DISTRIBUTION (MARITIME OPERATIONS)

Qualification Title	Certificate III in Transport & Distribution (Maritime Operations)
Qualification Code	TDM30101
Qualification Summary	This qualification will provide you with the practical skills and knowledge to safely operate a commercial vessel of less than 24 metres in length. You will learn skills in shipboard safety, marine radio operation, ship structural knowledge, ship handling and navigation.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 25 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 17 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF5302A	Fight and extinguish fires on board a small vessel	4
TDMMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Handling Cargo and Vessel Stability		
TDMMMA1101A	Maintain the stability of a vessel using basic stability information	12
Equipment Checking and Maintenance		
TDMMMB601A	Monitor condition and seaworthiness of a small vessel	21
TDMMMB701A	Slip vessel and maintain hull	4
Manoeuvre Vessel		
TDMMMC701B	Apply seamanship skills and techniques when operating a small domestic vessel	6
TDMMMC801A	Manoeuvre a vessel less than 24 metres in length within inshore limit	6
Communications		
TDMME501A	Transmit and receive information by marine radio or telephone	25
Operational Quality and Safety		
TDMMF201A	Respond to navigational emergencies	24
TDMMF3201B	Apply domestic regulations when operating a small vessel	6
TDMMF4702A	Contribute to maintaining a safe watch on a domestic vessel	15
Navigation		
TDMMH801A	Plan and navigate an inshore passage	45
TDMMH1102A	Use radar to maintain safe navigation	25
TDMMH1302A	Apply weather information when navigating a small vessel	12
Carry Out Operations on Equipment and Systems		
TDMMR101A	Operate and maintain steering gear arrangements	4
TDMMR201A	Use and maintain deck equipment and machinery	4
TDMMR301A	Operate fuel, fresh and ballast water, bilge and fire pumping systems installed in a vessel	10
TDMMR5502A	Perform rigging and lifting operations on board a small domestic vessel	4
Environment		
TDMMU502A	Ensure compliance with environmental considerations in a small domestic vessel	2
TOTAL		288

Training Program #4:

TDM40101 – CERTIFICATE IV IN TRANSPORT & DISTRIBUTION (MARITIME OPERATIONS)

Qualification Title	Certificate IV in Transport & Distribution (Maritime Operations)
Qualification Code	TDM40101
Qualification Summary	This qualification will provide you with the practical skills and knowledge to safely operate a commercial vessel of less than 35 metres in length. You will learn skills in shipboard safety, marine radio operation, ship structural knowledge, ship handling and navigation and cargo operations for commercial shipping operations.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 28 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 20 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF5302A	Fight and extinguish fires on board a small vessel	4
TDMMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Handling Cargo and Vessel Stability		
TDMMMA901A	Prepare a cargo plan for cargo loading and unloading operations	12
TDMMMA1201A	Manage stress and dynamic factors affecting a small vessel's stability	21
Equipment Checking and Maintenance		
TDMMMB601A	Monitor condition and seaworthiness of a small vessel	21
Manoeuvre Vessel		
TDMMMC501A	Manoeuvre a vessel less than 80 metres in length in any prevailing conditions	12
TDMMMC601A	Manage a propulsion unit using the appropriate engine systems and support services	18
Communications		
TDMMME501A	Transmit and receive information by marine radio or telephone	25
TDMMME801B	Transmit and receive information by GMDSS subsystems and equipment on a vessel	70
Operational Quality and Safety		
TDMMF201A	Respond to navigational emergencies	24
TDMMF901A	Fight and extinguish fires	14
TDMMF1901A	Operate life-saving appliances	37
TDMMF3201B	Apply domestic regulations when operating a small vessel	6
TDMMF4702A	Contribute to maintaining a safe watch on a domestic vessel	15
TDMMF4802A	Execute watchkeeping arrangements and procedures on a domestic vessel	42
Navigation		
TDMMH501A	Use radar and other electronic aids to maintain safe navigation	92
TDMMH601A	Plan and conduct a coastal passage and determine position	90
TDMMH701A	Apply weather information when navigating a small vessel	12
TDMMH801A	Plan and navigate an inshore passage	45
TDMMH1102A	Use radar to maintain safe navigation	25
Human Resources		
TDMMML301A	Establish and maintain a harmonious workplace environment	15

National ID	Competency Name	Hrs
Environment		
TDMMU401A	Ensure compliance with pollution prevention measures	6
TOTAL		665

Training Program #5:

TDM50101 – DIPLOMA OF TRANSPORT & DISTRIBUTION (MARITIME OPERATIONS)

Qualification Title	Diploma of Transport & Distribution (Maritime Operations)
Qualification Code	TDM50101
Qualification Summary	This qualification will provide you with the practical skills and knowledge to keep watch of the navigation operations of a vessel. You will learn skills in shipboard safety, marine radio operation, ship structural knowledge, ship handling and navigation and cargo operations. You will also learn skills in marine communications and management.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 28 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 20 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF901A	Fight and extinguish fires	14
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Handling Cargo and Vessel Stability		
TDMMA701A	Monitor the loading, stowage, security and unloading of cargo	37
TDMMA801A	Monitor the care of cargo during a voyage	7
Equipment Checking and Maintenance		
TDMMB401A	Maintain seaworthiness of vessel	110
Manoeuvre Vessel		
TDMMC201A	Operate remote controls of propulsion plant and engineering systems and procedures	53
TDMMC301A	Manoeuvre and handle the vessel in normal conditions	25
Communications		
TDMME201A	Communicate using standard marine vocabulary	7
TDMME301A	Transmit and receive information by visual signalling	12
TDMME801B	Transmit and receive information by GMDSS subsystems and equipment on a vessel	70
Operational Quality and Safety		
TDMMF201A	Respond to navigational emergencies	24
TDMMF1301A	Manage marine fire-fighting and prevention activities	21
TDMMF1701A	Respond to distress signal at sea	10
TDMMF1801A	Apply medical first aid on board a vessel	42
TDMMF1901A	Operate life-saving appliances	37
TDMMF2001A	Prevent, control and fight fires on board a vessel	12
TDMMF2101A	Control safe access to and on vessel	10
TDMMF2301A	Operate emergency equipment and apply emergency procedures	10
TDMMF3001A	Maintain a safe navigational watch	50
Navigation		
TDMMH401A	Plan and conduct a passage and determine position	210
TDMMH501A	Use radar and other electronic aids to maintain safe navigation	92
Human Resources		
TDMMML301A	Establish and maintain a harmonious workplace environment	15
TOTAL		927

Training Program #6:

TDM60101 – ADVANCED DIPLOMA OF TRANSPORT & DISTRIBUTION (MARITIME OPERATIONS)

Qualification Title	Advanced Diploma of Transport & Distribution (Maritime Operations)
Qualification Code	TDM60101
Qualification Summary	This qualification will provide you with the practical skills and knowledge to manage the navigation operations of a vessel. You will learn skills in shipboard safety, responding and managing emergency situations, operating a marine radio, ship structural knowledge, ship handling and navigation, cargo operations, marine communications and ship masters business and management at the command level.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 42 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 34 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF901A	Fight and extinguish fires	14
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Handling Cargo and Vessel Stability		
TDMMA101A	Plan and ensure safe loading, stowage, security and unloading of cargo	40
TDMMA201A	Plan and ensure safe care of cargo during a voyage	12
TDMMA301A	Plan and monitor the carriage of dangerous cargoes	12
TDMMA701A	Monitor the loading, stowage, security and unloading of cargo	37
TDMMA801A	Monitor the care of cargo during a voyage	7
TDMMA1001A	Control trim, stability and stress	215
Manoeuvre Vessel		
TDMMC101A	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
TDMMC301A	Manoeuvre and handle the vessel in normal conditions	25
Communications		
TDMME201A	Communicate using standard marine vocabulary	7
TDMME301A	Transmit and receive information by visual signalling	12
TDMME501A	Transmit and receive information by marine radio or telephone	25
TDMME801B	Transmit and receive information by GMDSS subsystems and equipment on a vessel	70
Operational Quality and Safety		
TDMMF101A	Assist in search and rescue operations	8
TDMMF201A	Respond to navigational emergencies	24
TDMMF301A	Monitor compliance with legislative requirements and measures to ensure safety of life at sea	95
TDMMF401A	Maintain the operational condition of life-saving, fire fighting and other safety systems	7
TDMMF501B	Develop emergency and damage control plans and handle emergency situations on board a vessel	12
TDMMF601A	Organise and manage the provision of medical care on board a vessel	63
TDMMF1301A	Manage marine fire-fighting and prevention activities	21
TDMMF1701A	Respond to distress signal at sea	10

National ID	Competency Name	Hrs
TDMMF1901A	Operate life-saving appliances	37
TDMMF2001A	Prevent, control and fight fires on board a vessel	12
TDMMF2601A	Establish watchkeeping arrangements and procedures	24
TDMMF2901A	Maintain a safe navigational watch on a coastal voyage	50
TDMMF3001A	Maintain a safe navigational watch	50
TDMMF3701A	Manage vessel operations	28
Navigation		
TDMMH101A	Plan voyage and conduct navigation	100
TDMMH201A	Determine position of the vessel and the accuracy of the resultant position	100
TDMMH301A	Manage safe navigation through the use of radar and other navigational aids	30
TDMMH901A	Forecast weather and oceanographic conditions	63
Human Resources		
TDMLL101A	Organise and manage the crew	25
Environment		
TDMMU101A	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
TDMMU401A	Ensure compliance with pollution prevention measures	6
		TOTAL
		1405

Training Program #7:

TDM20201 – CERTIFICATE II IN TRANSPORT & DISTRIBUTION (MARINE ENGINE DRIVING)

Qualification Title	Certificate II in Transport & Distribution (Marine Engine Driving)
Qualification Code	TDM20201
Qualification Summary	This qualification will provide you with the practical skills and knowledge to operate and maintain the main propulsion and auxiliary systems on a small commercial vessel. You will learn skills in how to understand shipboard orders, follow safe work practices, provide first aid and respond to emergency situations. You will also learn skills that enable you to operate and maintain deck machinery, use hand and power tools and carry out refuelling operations.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 17 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 9 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF5302A	Fight and extinguish fires on board a small vessel	4
TDMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Equipment Checking and Safety		
TDMMB1901A	Carry out basic hull servicing	9
TDMMB3601A	Prepare a small vessel's machinery for sea	12
Operational Quality and Safety		
TDMMF3901A	Maintain running log including fuel calculations and written reports	9
Carry Out Operations on Equipment and Systems		
TDMMR1801A	Operate deck machinery installed on a small vessel	12
TDMMR1901A	Safely handle and stow explosive and flammable materials	3
TDMMR5402A	Carry out refuelling and fuel transfer operations	4
MEM18.1AB	Use hand tools	18
MEM18.2AA	Use power tools/hand held operations	18
Environment		
TDMMU502A	Ensure compliance with environmental considerations in a small domestic vessel	2
TOTAL		150

Training Program #8:

TDM30201 – CERTIFICATE III IN TRANSPORT & DISTRIBUTION (MARINE ENGINE DRIVING)

Qualification Title	Certificate III in Transport & Distribution (Marine Engine Driving)
Qualification Code	TDM30201
Qualification Summary	This qualification will provide you with the practical skills and knowledge to operate and maintain the main propulsion and auxiliary systems on a small commercial vessel with an engine up to 750 kW propulsion power. You will learn skills in how to understand shipboard orders, follow safe work practices, provide first aid and respond to emergency situations. You will also learn skills that enable you to operate and maintain deck machinery, identify and repair deteriorated fittings and machinery, use hand and power tools and carry out refuelling operations.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 21 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 13 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF5302A	Fight and extinguish fires on board a small vessel	4
TDMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Equipment Checking and Safety		
TDMMB2901A	Recognise and correct deteriorated fittings and machinery	9
TDMMB3601A	Prepare a small vessel's machinery for sea	12
Operational Quality and Safety		
TDMMF2701A	Prevent, control and fight fires on board a small vessel	14
TDMMF4001A	Carry out basic operational engineering calculations	20
Carry Out Operations on Equipment and Systems		
TDMMR1801A	Operate deck machinery installed on a small vessel	12
TDMMR1901A	Safely handle and stow explosive and flammable materials	3
TDMMR2701A	Operate and maintain marine internal combustion engines on vessels of 750 kW propulsion power or less	30
TDMMR2801A	Operate and maintain auxiliary systems on vessels up to 750 kW propulsion power	30
TDMMR2901A	Operate and maintain marine low and medium voltage electrical systems	20
TDMMR5402A	Carry out refuelling and fuel transfer operations	4
MEM18.1AB	Use hand tools	18
MEM18.2AA	Use power tools/hand held operations	18
Environment		
TDMMU502A	Ensure compliance with environmental considerations in a small domestic vessel	2
TOTAL		255

Training Program #9:

TDM40201 – CERTIFICATE IV IN TRANSPORT & DISTRIBUTION (MARINE ENGINEERING)

Qualification Title	Certificate IV in Transport & Distribution (Marine Engineering)
Qualification Code	TDM40201
Qualification Summary	This qualification will provide you with the practical skills and knowledge to maintain and operate marine engines, auxiliary machinery and onboard systems on a small commercial vessel with an engine up to 1000 kW propulsion power. You will learn skills in how to understand shipboard orders, follow safe work practices, provide first aid and respond to emergency situations. You will also learn skills in welding, metal fabrication, engineering calculations and how to use hand and power tools.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 25 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 17 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMMF5302A	Fight and extinguish fires on board a small vessel	4
TDMMML201A	Contribute to effective human relationships on board a vessel	4
Equipment Checking and Safety		
TDMMB3101A	Organise maintenance and repairs on a small vessel	40
TDMMB3501A	Employ damage control techniques for hull damage	6
Operational Quality and Safety		
TDMMF401A	Maintain the operational condition of life-saving, fire fighting and other safety systems	7
TDMMF2701A	Prevent, control and fight fires on board a small vessel	14
TDMMF4101A	Carry out engineering calculations related to maintenance and operations	40
Carry Out Operations on Equipment and Systems		
TDMMR201A	Use and maintain deck equipment and machinery	4
TDMMR1801A	Operate deck machinery installed on a small vessel	12
TDMMR2401A	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
TDMMR2601A	Operate, test, and maintain marine electrical and control equipment	20
TDMMR5402A	Carry out refuelling and fuel transfer operations	4
MEM5.15AA	Weld using manual metal arc process	36
MEM5.7AB	Manual heating and thermal cutting	18
MEM18.1AB	Use hand tools	18
MEM18.2AA	Use power tools/hand held operations	18
Environment		
TDMMU401A	Ensure compliance with pollution prevention measures	6
TDMMU502A	Ensure compliance with environmental considerations in a small domestic vessel	2
TOTAL		368

Training Program #10:

TDM50201 – DIPLOMA OF TRANSPORT & DISTRIBUTION (MARINE ENGINEERING)

Qualification Title	Diploma of Transport & Distribution (Marine Engineering)
Qualification Code	TDM50201
Qualification Summary	This qualification will provide you with the practical skills and knowledge to keep watch of the operation and maintain the main propulsion and auxiliary systems on a commercial vessel. You will learn skills that enable you to operate, test and maintain electrical control equipment and to organise maintenance and repairs of the ship, equipment and machinery. You will also learn skills in welding, metal fabrication and engineering calculations and how to use hand and power tools.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 28 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 20 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF901A	Fight and extinguish fires	14
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Equipment Checking and Safety		
TDMMB1201A	Fault-find, dismantle, maintain and repair shipboard plant and equipment	95
TDMMB1301A	Carry out shipboard fabrication and repair operations	96
Communications		
TDMME701A	Use English in written and oral form to perform engineering duties	20
Operational Quality and Safety		
TDMMF1301A	Manage marine fire-fighting and prevention activities	21
TDMMF1801A	Apply medical first aid on board a vessel	42
TDMMF1901A	Operate life-saving appliances	37
TDMMF2001A	Prevent, control and fight fires on board a vessel	12
TDMMF3101A	Maintain a safe engineering watch	95
Carry Out Operations on Equipment and Systems		
TDMMR901A	Operate alternators, generators and control systems to supply shipboard electrical power	84
TDMMR1001A	Operate pumping systems and associated control systems	20
TDMMR1101A	Operate main and auxiliary machinery and associated control systems	65
MEM5.1AA	Manual soldering/de-soldering - electrical/electronic components	36
MEM5.15AA	Weld using manual metal arc welding process	36
MEM5.4AB	Perform routine oxy acetylene welding	18
MEM5.6AA	Perform brazing and/or silver soldering	18
MEM5.7AB	Manual heating and thermal cutting	18
MEM7.5AA	Perform general machining	72
MEM18.1AB	Use hand tools	18
MEM18.2AA	Use power tools/hand held operations	18
Environment		
TDMMU401A	Ensure compliance with pollution prevention measures	6
TOTAL		900

Training Program #11:

TDM60201 – ADVANCED DIPLOMA OF TRANSPORT & DISTRIBUTION (MARINE ENGINEERING)

Qualification Title	Advanced Diploma of Transport & Distribution (Marine Engineering)
Qualification Code	TDM60201
Qualification Summary	This qualification will provide you with the practical skills and knowledge to manage the operation and maintenance of the main propulsion and auxiliary systems of a commercial vessel. You will learn skills that enable you to manage the testing and maintenance operations of electrical control systems and organise maintenance and repairs of the ship, equipment and machinery.
Qualification Packaging Rules	<p>Requirements for completion of the qualification</p> <p>A successful assessment outcome of a total of 31 units must be achieved</p> <ul style="list-style-type: none"> • Complete the 8 pre-sea entry level units • Select 23 units chosen from relevant cross industry units listed in the Maritime Training Package TDM01.

National ID	Competency Name	Hrs
PRE-SEA UNITS		
TDMME101A	Understand orders and be understood in relation to shipboard duties	4
TDMMF701B	Observe safe working practices and procedures on board a vessel	4
TDMMF801B	Comply with emergency procedures on board a vessel	4
TDMMF901A	Fight and extinguish fires	14
TDMMF1001A	Provide first aid	20
TDMMF1101A	Survive at sea in the event of vessel abandonment	16
TDMMF1201A	Minimise the risk of fire and maintain a state of readiness to respond to emergency situations involving fire	7
TDMML201A	Contribute to effective human relationships on board a vessel	4
ELECTIVES		
Equipment Checking and Safety		
TDMMB801A	Detect the cause of machinery malfunctions on vessels of unlimited propulsion power	103
TDMMB901A	Organise safe maintenance and repair procedures on vessels of unlimited propulsion power	66
TDMMB1001A	Test, detect faults and maintain and restore electrical machinery and electrical and electronic control equipment to operating condition on vessels of unlimited propulsion power	76
TDMMB1501A	Detect and identify the cause of machinery malfunctions and repair faults on vessels over 750kW propulsion power	57
TDMMB1601A	Organise safe maintenance and repair procedures on vessels of over 750 kW propulsion power	57
TDMMB1701A	Test, detect faults and maintain and restore electrical machinery and electrical and electronic control equipment to operating condition on vessels over 750 kW	84
Operational Quality and Safety		
TDMMF401A	Maintain the operational condition of life-saving, fire fighting and other safety systems	7
TDMMF2201A	Maintain safety of engine equipment, systems and services on vessels of unlimited propulsion power	84
TDMMF2501A	Ensure safe working practices	76
TDMMF2601A	Establish watchkeeping arrangements and procedures	24
TDMMF3701A	Manage vessel operations	28
Human Resources		
TDMML101A	Organise and manage the crew	25
Carry Out Operations on Equipment and Systems		
TDMMR401A	Operate electrical machinery and electronic control equipment on vessels of unlimited propulsion power	76
TDMMR501A	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	38

National ID	Competency Name	Hrs
TDMMR601A	Operate, monitor and evaluate engine performance on vessels of unlimited propulsion power	103
TDMMR701A	Plan operations on vessels of unlimited propulsion power	103
TDMMR801A	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels of unlimited propulsion power	20
TDMMR1301A	Operate electrical machinery & electronic control equipment on vessels over 750 kW propulsion power	84
TDMMR1401A	Manage fuel, bilge and ballast operations procedures on vessels over 750 kW propulsion power	25
TDMMR1501A	Operate, monitor and evaluate engine performance on vessels over 750 kW propulsion power	40
TDMMR1601A	Plan and schedule operations on vessels over 750 kW propulsion power	10
TDMMR1701A	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels over 750 kW propulsion power	20
Environment		
TDMMU101A	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12
TOTAL		1291