

**MAR13  
MARITIME  
TRAINING PACKAGE**

**Version 1**

**WA NOMINAL HOURS  
GUIDE**

**Western Australian Department of Training and Workforce  
Development**

**October 2013**

# CONTENTS

Introduction .....	2
Obtaining the Training Package .....	3
Transition Arrangements .....	4
Nominal Hours .....	4
Regulatory Requirements .....	5
Qualifications and Nominal Hours .....	6
Units of Competency and Nominal Hours .....	7
Mapping Qualifications .....	11
Mapping Units of Competency .....	13
Deleted Units of Competency .....	22
Traineeships .....	33

## Introduction

This WA Nominal Hours Guide has been generated to enable the stakeholders in the Maritime Industry in Western Australia to participate in the managed implementation of the National MAR13 Maritime Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

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

Version 1 of the MAR13 Maritime Training Package was released by Training.Gov.Au (TGA) on the **6 June 2013**

## Obtaining the Training Package

The MAR13 Maritime Training Package can be purchased from:



Office: Level 4, 411 Collins Street  
Melbourne VIC 3000  
T: (03) 9604 7200 | F: (03) 9629 8903  
E: [tlisc@tlisc.com.au](mailto:tlisc@tlisc.com.au)  
W: [www.tlisc.com.au](http://www.tlisc.com.au)

Information on National Training Packages is also available through Training.Gov (TGA), which can be located on the Internet at: [www.training.gov.au](http://www.training.gov.au)

**All RTOs who have Training Package qualifications on their Scope of Delivery must have access to the relevant Training Package.**

## Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of the release date of the Training Package on to Training.gov.au (TGA).

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

## Nominal Hours

The Commonwealth Department of Employment, Education and Workplace Relations' definition of nominal hours states:

***“The value assigned to a structured program of study that nominally represents the anticipated hours of supervised learning and/or training deemed necessary to conduct training/learning and assessment activities associated with the program of study”***

Source: National Quality Council Training Package Glossary Version V2.1 17/03/2010  
<http://www.deewr.gov.au/Skills/Overview/Policy/TPDH/Downloads/Documents/TrainingPackGlossary.pdf>

Nominal hours are identified for each Training Package qualification. Total nominal hours may vary within a qualification depending on the units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

## Regulatory Requirements

Regulatory requirements for occupations in the Australian Maritime Industry for the purposes of the MAR13 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' administered by AMSA.

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 2012. 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 AMSA.

Website and contact details for the West Australian marine authority is provided in the table below.

WA Department of Transport (Marine)	<a href="http://www.transport.wa.gov.au/imate/marine_information.asp">http://www.transport.wa.gov.au/imate/marine_information.asp</a>	(08) 9435 7500
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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' under the Navigation Act 2012 (downloadable from the AMSA website).

## Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the MAR13 Maritime Training Package

National ID	Training Package Qualification Title	Nominal Hours
MAR10113	Certificate I in Maritime Operations (General Purpose Hand)	147
MAR10213	Certificate I in Maritime Operations (Linesperson)	129
MAR20113	Certificate II in Maritime Operations (Coxswain)	247
MAR20213	Certificate II in Maritime Operations (Marine Engine Driver Grade 3)	327
MAR30113	Certificate III in Maritime Operations (Integrated Rating)	464
MAR30213	Certificate III in Maritime Operations (Marine Engine Driver Grade 2)	412
MAR30313	Certificate III in Maritime Operations (Marine Engine Driver Steam)	282
MAR30413	Certificate III in Maritime Operations (Master up to 24 metres)	393
MAR30513	Certificate III in Maritime Operations (Master Inland Waters)	258
MAR30613	Certificate III in Maritime Operations (Marine Surveying)	237
MAR30713	Certificate III in Maritime Operations (Marine Cookery)	255
MAR40113	Certificate IV in Maritime Operations (Chief Integrated Rating)	599
MAR40213	Certificate IV in Maritime Operations (Marine Engine Driver Grade 1)	709
MAR40313	Certificate IV in Maritime Operations (Master up to 35 metres)	541
MAR40413	Certificate IV in Maritime Operations (Marine Surveying)	387
MAR50113	Diploma of Maritime Operations (Marine Engineering Class 3)	555
MAR50213	Diploma of Maritime Operations (Engineer Watchkeeper)	425
MAR50313	Diploma of Maritime Operations (Watchkeeper Deck)	896
MAR50413	Diploma of Maritime Operations (Master up to 500 GT or Master 80 metres)	962
MAR50513	Diploma of Maritime Operations (Marine Surveying)	400
MAR60113	Advanced Diploma of Maritime Operations (Marine Engineering Class 2)	551
MAR60213	Advanced Diploma of Maritime Operations (Master Unlimited)	1144
MAR60313	Advanced Diploma of Maritime Operations (Marine Engineering Class 1)	646

## Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the industry MAR13 Maritime Training Package

National ID	Title	Nominal Hours
MARA3001A	Contribute to safe cargo operations on liquefied gas tankers	50
MARA3002A	Contribute to safe cargo operations on oil and chemical tankers	50
MARA4001A	Manage loading, discharging and stowage of cargo	18
MARA4002A	Manage vessel stability	20
MARA5001A	Maintain vessel stability	60
MARA5002A	Monitor loading, unloading and stowage of cargo	45
MARA6001A	Manage stability of a vessel 500 gross tonnage or more	120
MARB1001A	Assist with routine maintenance of a vessel	20
MARB2001A	Perform basic servicing and maintenance of main propulsion unit and auxiliary systems	15
MARB2002A	Service marine internal combustion engines and propulsion and auxiliary systems	50
MARB3001A	Maintain firefighting appliances	20
MARB3002A	Perform routine engine maintenance on a vessel	20
MARB3003A	Perform routine maintenance and repairs on a vessel	35
MARB3004A	Perform routine maintenance on a vessel up to 24 metres	36
MARB3005A	Slip or dock a vessel and maintain hull on a vessel up to 80 metres	20
MARB3006A	Maintain marine internal combustion engines, propulsion plant and auxiliary systems	25
MARB3007A	Undertake basic maintenance of electrical systems	35
MARB4001A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	70
MARB4002A	Implement vessel planned maintenance system	35
MARB4003A	Manage refuelling	12
MARB4004A	Manage stores for planned maintenance system	25
MARB4005A	Plan and supervise routine maintenance on a vessel up to 80 metres	35
MARB4006A	Undertake maintenance of 240 to 440 voltage alternating current electrical systems	20
MARB4007A	Undertake maintenance of machinery, machinery systems and structural components	25
MARB5001A	Maintain and repair marine electrical and electronic equipment	50
MARB5002A	Maintain and repair shipboard machinery and equipment	45
MARB6001A	Manage repairs and maintenance of a vessel 500 gross tonnage or more	66
MARC1001A	Carry out shore-based mooring and untying operations	20
MARC2001A	Complete engine room tasks	45
MARC2002A	Maintain hull out of water	20
MARC2003A	Operate and maintain extra low and low voltage electrical systems and equipment	20
MARC2004A	Operate deck machinery	20
MARC2005A	Operate inboard and outboard motors	20
MARC2006A	Operate main propulsion unit and auxiliary systems	20
MARC2007A	Operate marine internal combustion engines, and propulsion and auxiliary systems	50
MARC3001A	Manage fuel systems	25
MARC3002A	Operate and maintain a boiler	35
MARC3003A	Operate and maintain a steam engine up to 750 kW and steam auxiliary equipment	25
MARC3004A	Operate and maintain engines for auxiliary systems other than steam auxiliary systems	25
MARC3005A	Operate and monitor marine internal combustion engines, propulsion plant and auxiliary systems	35



National ID	Title	Nominal Hours
MARC3006A	Operate deck machinery, cargo handling gear and equipment on a vessel	20
MARC3007A	Operate electrical systems	15
MARC3008A	Operate engine equipment and associated propulsion plant	25
MARC4001A	Manage a propulsion unit using appropriate engine systems and support services	25
MARC4002A	Monitor and manage vessel operations	25
MARC4003A	Operate auxiliary machinery systems up to 1500 kW	20
MARC4004A	Operate deck machinery and steering gear on a vessel up to 80 metres	20
MARC4005A	Operate marine internal combustion engines and associated systems up to 1500 kW	45
MARC4006A	Operate propulsion transmission systems up to 1500 kW	20
MARC4007A	Operate 240 to 440 voltage alternating current electrical systems	20
MARC5001A	Employ tools, equipment and materials in a shipboard context	35
MARD5001A	Manage business and administration on vessels limited by tonnage or near coastal operations	21
MARD5002A	Manage operations and maintenance on vessels limited by tonnage or near coastal operations	15
MARD6001A	Manage legal requirements of a vessel	72
MARE1001A	Communicate during shore-based mooring and untying operations	10
MARE5001A	Communicate effectively when performing engineering duties	35
MARF1001A	Apply basic survival skills in the event of vessel abandonment	25
MARF1002A	Follow procedures to minimise and fight fires on board a vessel	25
MARF1003A	Follow vessel security procedures	9
MARF1004A	Follow work health and safety, and emergency procedures during shore-based mooring operations	20
MARF1005A	Meet work health and safety requirements	12
MARF1006A	Survive at sea using survival craft	15
MARF3001A	Assist in an emergency response	25
MARF3002A	Observe personal safety and social responsibility	12
MARF3003A	Operate emergency equipment and apply emergency procedures	5
MARF3004A	Operate survival craft and other lifesaving appliances	45
MARF3005A	Prevent and fight fires on board a vessel	25
MARF3006A	Survive at sea in the event of vessel abandonment	25
MARF3007A	Work safely in confined spaces on a vessel	25
MARF4001A	Manage firefighting and fire prevention activities on board a vessel	40
MARF5001A	Control safe access to and on vessel	15
MARF5002A	Provide medical first aid on board a vessel	20
MARF5003A	Respond to emergencies	15
MARF6001A	Coordinate search and rescue operations	20
MARF6002A	Manage provision of medical care on board a vessel	35
MARF6003A	Manage safety and security of vessel crew and passengers	45
MARG1001A	Work effectively as part of a crew on a vessel up to 80 metres	10
MARG4001A	Manage a small crew	20
MARG4002A	Manage an engine room and small engineering team	35
MARG4003A	Supervise a crew	35
MARG5001A	Provide leadership to crew	35
MARG6001A	Manage a vessel and its crew	60
MARH2001A	Plan and navigate a passage for a vessel up to 12 metres	33
MARH3001A	Apply weather information when navigating inland waters as Master	20
MARH3002A	Manage and maintain a navigational watch on board vessels up to 80 metres	25
MARH3003A	Plan and navigate a passage for a vessel up to 80 metres	90
MARH3004A	Use wheelhouse equipment for safe navigation	50
MARH4001A	Forecast weather and oceanographic conditions	10
MARH5001A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	30

National ID	Title	Nominal Hours
MARH5002A	Plan and conduct a passage	70
MARH5003A	Use an electronic chart display and information system to navigate safely	40
MARH5004A	Use bridge equipment to determine vessel position	25
MARH6001A	Forecast weather and oceanographic conditions to plan a safe passage	50
MARH6002A	Manage the navigation of a vessel 500 gross tonnage or more	50
MARI2001A	Comply with regulations to ensure safe operation of a vessel up to 12 metres	35
MARI3001A	Observe regulations to ensure safe operation of a vessel up to 80 metres	15
MARJ2001A	Follow environmental work practices	25
MARJ3001A	Monitor environmental management on a vessel	15
MARJ5001A	Ensure compliance with environmental management legislation	20
MARJ5002A	Inspect and report defects and damage to vessel	20
MARJ6001A	Manage compliance with environmental management legislation	20
MARK2001A	Handle a vessel up to 12 metres	60
MARK3001A	Manoeuvre a vessel up to 24 metres within near coastal waters	15
MARK3002A	Steer a vessel under direction of the Master	12
MARK4001A	Manoeuvre a vessel up to 80 metres	21
MARK5001A	Perform basic vessel manoeuvres	35
MARK6001A	Manoeuvre a vessel 500 gross tonnage or more	35
MARL4001A	Carry out engineering calculations	20
MARL5001A	Apply basic principles of marine electrotechnology	20
MARL5002A	Apply basic principles of marine engineering thermodynamics	20
MARL5003A	Apply basic principles of marine mechanics	20
MARL5004A	Apply basic principles of naval architecture	20
MARL5005A	Demonstrate basic knowledge of marine auxiliary boilers	20
MARL5006A	Demonstrate basic knowledge of marine auxiliary machinery and equipment	25
MARL5007A	Demonstrate basic knowledge of marine control systems and automation	20
MARL5008A	Demonstrate basic knowledge of marine diesel engines and systems	20
MARL5009A	Demonstrate basic knowledge of marine electrical systems	20
MARL5010A	Demonstrate basic knowledge of marine steam turbines and main boilers	20
MARL5011A	Demonstrate basic knowledge of ships and ship routines	20
MARL5012A	Perform basic marine engineering calculations	20
MARL6001A	Apply intermediate principles of marine electrotechnology	45
MARL6002A	Apply intermediate principles of marine engineering thermodynamics	35
MARL6003A	Apply intermediate principles of marine mechanics	35
MARL6004A	Apply intermediate principles of naval architecture	35
MARL6005A	Apply advanced principles of marine electrotechnology	50
MARL6006A	Apply advanced principles of marine engineering thermodynamics	45
MARL6007A	Apply advanced principles of marine mechanics	45
MARL6008A	Apply advanced principles of naval architecture	45
MARL6009A	Demonstrate basic knowledge of ship construction	35
MARL6010A	Demonstrate basic knowledge of ship operation and maintenance	25
MARL6011A	Demonstrate intermediate knowledge of marine auxiliary boilers	25
MARL6012A	Demonstrate intermediate knowledge of marine auxiliary machinery and systems	35
MARL6013A	Demonstrate intermediate knowledge of marine control systems and automation	25
MARL6014A	Demonstrate intermediate knowledge of marine diesel engines and systems	35
MARL6015A	Demonstrate intermediate knowledge of marine electrical systems	35
MARL6016A	Demonstrate intermediate knowledge of marine steam turbines and main boilers	70
MARL6017A	Demonstrate advanced knowledge of marine auxiliary boilers	35
MARL6018A	Demonstrate advanced knowledge of marine auxiliary machinery and systems	45
MARL6019A	Demonstrate advanced knowledge of marine control systems and	50

National ID	Title	Nominal Hours
	automation	
MARL6020A	Demonstrate advanced knowledge of marine diesel engines and systems	45
MARL6021A	Demonstrate advanced knowledge of marine electrical systems	50
MARL6022A	Demonstrate advanced knowledge of marine steam turbines and main boilers	70
MARL6023A	Demonstrate advanced knowledge of ship operation and maintenance	50
MARM3001A	Apply knowledge of safety management system legal framework in the workplace	35
MARM3002A	Apply vessel construction theory to marine survey tasks	35
MARM3003A	Identify factors that affect a commercial vessels's fitness for purpose	35
MARM3004A	Work in the marine surveying sector	20
MARM4001A	Assess compliance with marine environment protection requirements	25
MARM4002A	Assist in the survey of commercial vessels	20
MARM4003A	Assist in the survey of vessel mechanical features	20
MARM4004A	Evaluate vessel stability	20
MARM4005A	Implement a systematic approach to the audit of safety management systems	20
MARM4006A	Survey lifesaving appliances, fire and other safety systems	20
MARM5001A	Calculate, assess and report on vessel trim and stability	90
MARM5002A	Conduct a range of surveys on domestic commercial vessels	50
MARM5003A	Conduct an audit of safety management systems	45
MARM5004A	Develop marine survey reports	35
MARM5005A	Participate in investigating marine incidents	45
MARM5006A	Survey hull and superstructure of a commercial vessel	35
MARM5007A	Survey vessel operational systems	35
MARM5008A	Undertake a periodic statutory survey	45
MARM5009A	Establish a marine surveyor practice	45
MARN1001A	Apply general purpose hand skills aboard a vessel	25
MARN2001A	Apply seamanship skills aboard a vessel up to 12 metres	45
MARN3001A	Perform seamanship operations on board a vessel up to 24 metres	20
MARN3002A	Use seamanship skills on board a vessel	45
MARN4001A	Manage seaworthiness of a vessel up to 80 metres	20
MARN5001A	Maintain seaworthiness of a vessel	40
MARN6001A	Manage cargo operations	50
MARO1001A	Perform basic lookout duties	15
MARO3001A	Contribute to monitoring and controlling a safe engine watch	10
MARO3002A	Contribute to monitoring and controlling a safe navigational watch	10
MARO5001A	Maintain a safe navigational watch	90
MARO5002A	Transmit and receive information by the Global Maritime Distress and Safety System	70
MARO5003A	Transmit and receive information by visual signalling	15

## Mapping Qualifications

The following table provides an overview of the qualifications from the MAR13 Maritime Training Package which replaces qualifications from the existing version of the TDM08 Maritime Training Package

TDM07 Current Qualification				MAR13 Replacement Qualification		
National ID	Title	Hours	E/NE	National ID	Title	Hours
TDM10107	Certificate I in Transport & Distribution (Maritime Operations)			Qualification removed		
	No Previous Equivalent			MAR10113	Certificate I in Maritime Operations (General Purpose Hand)	147
TDM10207	Certificate I in Transport & Distribution (Maritime Operations – Shore-Based Linesperson)	132	E	MAR10213	Certificate I in Maritime Operations (Linesperson)	129
TDM20107	Certificate II in Transport & Distribution (Maritime Operations)			Qualification removed		
TDM20307	Certificate II in Transport & Distribution (Coastal Maritime Operations - Coxswain)	199	E	MAR20113	Certificate II in Maritime Operations (Coxswain)	247
TDM20207	Certificate II in Transport & Distribution (Marine Engine Driving – Grade 3)	170	E	MAR20213	Certificate II in Maritime Operations (Marine Engine Driver Grade 3)	327
TDM30107	Certificate III in Transport & Distribution (Maritime Operations)			Qualification removed		
TDM30307	Certificate III in Transport & Distribution (Maritime Operations – Integrated Rating)	573	E	MAR30113	Certificate III in Maritime Operations (Integrated Rating)	464
TDM30207	Certificate III in Transport & Distribution (Marine Engine Driving – Grade 2)	241	E	MAR30213	Certificate III in Maritime Operations (Marine Engine Driver Grade 2)	412
	No Previous Equivalent		E	MAR30313	Certificate III in Maritime Operations (Marine Engine Driver Steam)	282
TDM30407	Certificate III in Transport & Distribution (Coastal Maritime Operations – Master Class 5)	269	E	MAR30413	Certificate III in Maritime Operations (Master up to 24 metres)	393
	No Previous Equivalent			MAR30513	Certificate III in Maritime Operations (Master Inland Waters)	258
	No Previous Equivalent			MAR30613	Certificate III in Maritime Operations (Marine Surveying)	237
	No Previous Equivalent			MAR30713	Certificate III in Maritime Operations (Marine Cookery)	255
	No Previous Equivalent			MAR40113	Certificate IV in Maritime Operations (Chief Integrated Rating)	599

TDM07 Current Qualification				MAR13 Replacement Qualification		
National ID	Title	Hours	E/NE	National ID	Title	Hours
TDM40107	<i>Certificate IV in Transport &amp; Distribution (Maritime Operations)</i>			<i>Qualification removed</i>		
TDM40207	Certificate IV in Transport & Distribution (Marine Engine Driving - Grade 1)	403	E	MAR40213	Certificate IV in Maritime Operations (Marine Engine Driver Grade 1)	709
TDM40307	Certificate IV in Transport & Distribution (Coastal Maritime Operations – Master Class - 4)	402	E	MAR40313	Certificate IV in Maritime Operations (Master up to 35 metres)	541
	No Previous Equivalent			MAR40413	Certificate IV in Maritime Operations (Marine Surveying)	387
TDM50107	<i>Diploma of Transport &amp; Distribution (Maritime Operations)</i>			<i>Qualification removed</i>		
TDM50407	Diploma of Transport & Distribution (Coastal Marine Engineering – Engineer Class - 3)	458	E	MAR50113	Diploma of Maritime Operations (Marine Engineering Class 3)	555
TDM50207	Diploma of Transport & Distribution (Marine Engineering – Engineer Watchkeeper)	1019	E	MAR50213	Diploma of Maritime Operations (Engineer Watchkeeper)	425
TDM50307	Diploma of Transport & Distribution (Maritime Operations – Deck Watchkeeper)	984	E	MAR50313	Diploma of Maritime Operations (Watchkeeper Deck)	896
	No Previous Equivalent			MAR50413	Diploma of Maritime Operations (Master up to 500 GT or Master 80 metres)	962
	No Previous Equivalent			MAR50513	Diploma of Maritime Operations (Marine Surveying)	400
TDM50507	<i>Diploma of Transport &amp; Distribution (Coastal Maritime Operations – Master Class 3)</i>			<i>Qualification removed</i>		
TDM60107	<i>Advanced Diploma of Transport &amp; Distribution (Maritime Operations)</i>			<i>Qualification removed</i>		
TDM60307	Advanced Diploma of Transport & Distribution (Marine Engineering – Class 2)	1116	E	MAR60113	Advanced Diploma of Maritime Operations (Marine Engineering Class 2)	551
TDM60407	Advanced Diploma of Transport & Distribution (Maritime Operations – Master Unlimited)	1391	E	MAR60213	Advanced Diploma of Maritime Operations (Master Unlimited)	1144
TDM60207	Advanced Diploma of Transport & Distribution (Marine Engineering - Class 1)	1150	E	MAR60313	Advanced Diploma of Maritime Operations (Marine Engineering Class 1)	646

## Mapping Units of Competency

The following table provides an overview of the units of competency from the TDM07 Maritime Training Package which are replaced by the units of competency from the MAR13 Maritime Training Package

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
	No Previous Equivalent			MARA3001A	Contribute to safe cargo operations on liquefied gas tankers	50
	No Previous Equivalent			MARA3002A	Contribute to safe cargo operations on oil and chemical tankers	50
TDMMA907B	Prepare a cargo plan for cargo loading and unloading operations within limits of responsibility of a Master 4	12	E	MARA4001A	Manage loading, discharging and stowage of cargo	18
TDMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	21	E	MARA4002A	Manage vessel stability	20
TDMMA1707A	Determine the stability and trim of the vessel	70	E	MARA5001A	Maintain vessel stability	60
	No Previous Equivalent			MARA5002A	Monitor loading, unloading and stowage of cargo	45
TDMMA1007B	Control trim, stability and stress	120	E	MARA6001A	Manage stability of a vessel 500 gross tonnage or more	120
	No Previous Equivalent			MARB1001A	Assist with routine maintenance of a vessel	20
	No Previous Equivalent			MARB2001A	Perform basic servicing and maintenance of main propulsion unit and auxiliary systems	15
	No Previous Equivalent			MARB2002A	Service marine internal combustion engines and propulsion and auxiliary systems	50
	No Previous Equivalent			MARB3001A	Maintain firefighting appliances	20
	No Previous Equivalent			MARB3002A	Perform routine engine maintenance on a vessel	20
	No Previous Equivalent			MARB3003A	Perform routine maintenance and repairs on a vessel	35
	No Previous Equivalent			MARB3004A	Perform routine maintenance on a vessel up to 24 metres	36
TDMMB707B	Slip vessel and maintain hull	4	E	MARB3005A	Slip or dock a vessel and maintain hull on a vessel up to 80 metres	20
TDMMB2907B	Recognise and correct deteriorated fittings and machinery	9	E	MARB3006A	Maintain marine internal combustion engines, propulsion plant and auxiliary systems	25
	No Previous Equivalent			MARB3007A	Undertake basic maintenance of electrical systems	35

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
TDMMR6207A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	105	E	MARB4001A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	70
	No Previous Equivalent			MARB4002A	Implement vessel planned maintenance system	35
TDMMR5407B	Carry out refuelling and fuel transfer operations	4	E	MARB4003A	Manage refuelling	12
	No Previous Equivalent			MARB4004A	Manage stores for planned maintenance system	25
	No Previous Equivalent			MARB4005A	Plan and supervise routine maintenance on a vessel up to 80 metres	35
	No Previous Equivalent			MARB4006A	Undertake maintenance of 240 to 440 voltage alternating current electrical systems	20
	No Previous Equivalent			MARB4007A	Undertake maintenance of machinery, machinery systems and structural components	25
	No Previous Equivalent			MARB5001A	Maintain and repair marine electrical and electronic equipment	50
	No Previous Equivalent			MARB5002A	Maintain and repair shipboard machinery and equipment	45
TDMMB4307A	Monitor and manage the seaworthiness of the vessel	88	E	MARB6001A	Manage repairs and maintenance of a vessel 500 gross tonnage or more	66
TDMMR5607A	Carry out shore-based mooring and untying operations	24	E	MARC1001A	Carry out shore-based mooring and untying operations	20
	No Previous Equivalent			MARC2001A	Complete engine room tasks	45
TDMMB1907B	Carry out basic hull servicing	9	E	MARC2002A	Maintain hull out of water	20
	No Previous Equivalent			MARC2003A	Operate and maintain extra low and low voltage electrical systems and equipment	20
	No Previous Equivalent			MARC2004A	Operate deck machinery	20
TDMMR3007B	Operate and carry out basic service checks on small vessel marine propulsion systems	9	E	MARC2005A	Operate inboard and outboard motors	20
	No Previous Equivalent			MARC2006A	Operate main propulsion unit and auxiliary systems	20
	No Previous Equivalent			MARC2007A	Operate marine internal combustion engines, and propulsion and auxiliary systems	50
	No Previous Equivalent			MARC3001A	Manage fuel systems	25
	No Previous Equivalent			MARC3002A	Operate and maintain a boiler	35
	No Previous Equivalent			MARC3003A	Operate and maintain a steam engine up to 750 kW and steam auxiliary equipment	25
	No Previous Equivalent			MARC3004A	Operate and maintain engines for auxiliary systems other than steam auxiliary systems	25
TDMMR2707B	Operate and maintain marine internal	42		MARC3005A	Operate and monitor marine internal combustion	35

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
	combustion engines within the limits of responsibility of a Marine Engine Driver Grade 2		E		engines, propulsion plant and auxiliary systems	
TDMMR3407B	Operate deck machinery	20	E	MARC3006A	Operate deck machinery, cargo handling gear and equipment on a vessel	20
TDMMR2907B	Operate and maintain marine low and medium voltage electrical systems	20	E	MARC3007A	Operate electrical systems	15
	No Previous Equivalent			MARC3008A	Operate engine equipment and associated propulsion plant	25
TDMMC607B	Manage a propulsion unit using the appropriate engine systems and support services	18	E	MARC4001A	Manage a propulsion unit using appropriate engine systems and support services	25
	No Previous Equivalent			MARC4002A	Monitor and manage vessel operations	25
	No Previous Equivalent			MARC4003A	Operate auxiliary machinery systems up to 1500 kW	20
	No Previous Equivalent			MARC4004A	Operate deck machinery and steering gear on a vessel up to 80 metres	20
	No Previous Equivalent			MARC4005A	Operate marine internal combustion engines and associated systems up to 1500 kW	45
	No Previous Equivalent			MARC4006A	Operate propulsion transmission systems up to 1500 kW	20
	No Previous Equivalent			MARC4007A	Operate 240 to 440 voltage alternating current electrical systems	20
TDMMB3707B	Fabricate simple shipboard components	50	E	MARC5001A	Employ tools, equipment and materials in a shipboard context	35
TDMMML507A	Manage business and administration on vessels limited by tonnage or near coastal operations	13	E	MARD5001A	Manage business and administration on vessels limited by tonnage or near coastal operations	21
TDMMB4807A	Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	5	E	MARD5002A	Manage operations and maintenance on vessels limited by tonnage or near coastal operations	15
TDMMF307B	Manage business and legal requirements on a vessel	83	E	MARD6001A	Manage legal requirements of a vessel	72
TDMMME907A	Communicate during shore-based mooring and untying operations	12	E	MARE1001A	Communicate during shore-based mooring and untying operations	10
TDMMME707B	Use English in written and oral form to perform engineering duties	20	E	MARE5001A	Communicate effectively when performing engineering duties	35
	No Previous Equivalent			MARF1001A	Apply basic survival skills in the event of vessel abandonment	25
	No Previous Equivalent			MARF1002A	Follow procedures to minimise and fight fires on	25



TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
					board a vessel	
TDMMO107A	Follow maritime security procedures	8	E	MARF1003A	Follow vessel security procedures	9
TDMMF6007A	Follow OHS and emergency procedures during shore-based mooring operations	16	E	MARF1004A	Follow work health and safety, and emergency procedures during shore-based mooring operations	20
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	4	E	MARF1005A	Meet work health and safety requirements	12
	No Previous Equivalent			MARF1006A	Survive at sea using survival craft	15
	No Previous Equivalent			MARF3001A	Assist in an emergency response	25
TDMMF5607A	Observe personal safety and social responsibilities	12	E	MARF3002A	Observe personal safety and social responsibility	12
TDMMF2307B	Operate emergency equipment and apply emergency procedures	8	E	MARF3003A	Operate emergency equipment and apply emergency procedures	5
TDMMF1907B	Operate survival craft and other lifesaving appliances	37	E	MARF3004A	Operate survival craft and other lifesaving appliances	45
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	21	E	MARF3005A	Prevent and fight fires on board a vessel	25
	No Previous Equivalent			MARF3006A	Survive at sea in the event of vessel abandonment	25
TDMMF5907A	Work safely in enclosed spaces on a vessel	6	E	MARF3007A	Work safely in confined spaces on a vessel	25
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	33	E	MARF4001A	Manage firefighting and fire prevention activities on board a vessel	40
TDMMF2107B	Control safe access to and on vessel	6	E	MARF5001A	Control safe access to and on vessel	15
	No Previous Equivalent			MARF5002A	Provide medical first aid on board a vessel	20
	No Previous Equivalent			MARF5003A	Respond to emergencies	15
TDMMF107B	Assist in search and rescue operations	16	E	MARF6001A	Coordinate search and rescue operations	20
	No Previous Equivalent			MARF6002A	Manage provision of medical care on board a vessel	35
	No Previous Equivalent			MARF6003A	Manage safety and security of vessel crew and passengers	45
	No Previous Equivalent			MARG1001A	Work effectively as part of a crew on a vessel up to 80 metres	10
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	8	E	MARG4001A	Manage a small crew	20
	No Previous Equivalent			MARG4002A	Manage an engine room and small engineering team	35
	No Previous Equivalent			MARG4003A	Supervise a crew	35

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
TDMML307B	Establish and maintain a harmonious workplace environment	15	E	MARG5001A	Provide leadership to crew	35
TDMML407A	Manage administration of the vessel and its personnel	53	E	MARG6001A	Manage a vessel and its crew	60
TDMMH1207B	Plan and navigate a short voyage within inshore limits	31	E	MARH2001A	Plan and navigate a passage for a vessel up to 12 metres	33
	No Previous Equivalent			MARH3001A	Apply weather information when navigating inland waters as Master	20
	No Previous Equivalent			MARH3002A	Manage and maintain a navigational watch on board vessels up to 80 metres	25
	No Previous Equivalent			MARH3003A	Plan and navigate a passage for a vessel up to 80 metres	90
	No Previous Equivalent			MARH3004A	Use wheelhouse equipment for safe navigation	50
TDMMH707B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 4	12	E	MARH4001A	Forecast weather and oceanographic conditions	10
TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	35	E	MARH5001A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	30
	No Previous Equivalent			MARH5002A	Plan and conduct a passage	70
	No Previous Equivalent			MARH5003A	Use an electronic chart display and information system to navigate safely	40
	No Previous Equivalent			MARH5004A	Use bridge equipment to determine vessel position	25
TDMMH907B	Forecast weather and oceanographic conditions	63	E	MARH6001A	Forecast weather and oceanographic conditions to plan a safe passage	50
	No Previous Equivalent			MARH6002A	Manage the navigation of a vessel 500 gross tonnage or more	50
	No Previous Equivalent			MARI2001A	Comply with regulations to ensure safe operation of a vessel up to 12 metres	35
	No Previous Equivalent			MARI3001A	Observe regulations to ensure safe operation of a vessel up to 80 metres	15
	No Previous Equivalent			MARJ2001A	Follow environmental work practices	25
	No Previous Equivalent			MARJ3001A	Monitor environmental management on a vessel	15
	No Previous Equivalent			MARJ5001A	Ensure compliance with environmental management legislation	20
	No Previous Equivalent			MARJ5002A	Inspect and report defects and damage to vessel	20

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	12	E	MARJ6001A	Manage compliance with environmental management legislation	20
	No Previous Equivalent			MARK2001A	Handle a vessel up to 12 metres	60
TDMMC807B	Manoeuvre a vessel within the limits of responsibility of a Master 5	6	E	MARK3001A	Manoeuvre a vessel up to 24 metres within near coastal waters	15
TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	8	E	MARK3002A	Steer a vessel under direction of the Master	12
TDMMC507B	Manoeuvre a vessel within limits of responsibility of a Master 4	12	E	MARK4001A	Manoeuvre a vessel up to 80 metres	21
	No Previous Equivalent			MARK5001A	Perform basic vessel manoeuvres	35
	No Previous Equivalent			MARK6001A	Manoeuvre a vessel 500 gross tonnage or more	35
	No Previous Equivalent			MARL4001A	Carry out engineering calculations	20
	No Previous Equivalent			MARL5001A	Apply basic principles of marine electrotechnology	20
	No Previous Equivalent			MARL5002A	Apply basic principles of marine engineering thermodynamics	20
	No Previous Equivalent			MARL5003A	Apply basic principles of marine mechanics	20
	No Previous Equivalent			MARL5004A	Apply basic principles of naval architecture	20
	No Previous Equivalent			MARL5005A	Demonstrate basic knowledge of marine auxiliary boilers	20
	No Previous Equivalent			MARL5006A	Demonstrate basic knowledge of marine auxiliary machinery and equipment	25
	No Previous Equivalent			MARL5007A	Demonstrate basic knowledge of marine control systems and automation	20
	No Previous Equivalent			MARL5008A	Demonstrate basic knowledge of marine diesel engines and systems	20
	No Previous Equivalent			MARL5009A	Demonstrate basic knowledge of marine electrical systems	20
	No Previous Equivalent			MARL5010A	Demonstrate basic knowledge of marine steam turbines and main boilers	20
	No Previous Equivalent			MARL5011A	Demonstrate basic knowledge of ships and ship routines	20
	No Previous Equivalent			MARL5012A	Perform basic marine engineering calculations	20
	No Previous Equivalent			MARL6001A	Apply intermediate principles of marine electrotechnology	45
	No Previous Equivalent			MARL6002A	Apply intermediate principles of marine engineering thermodynamics	35

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
	No Previous Equivalent			MARL6003A	Apply intermediate principles of marine mechanics	35
	No Previous Equivalent			MARL6004A	Apply intermediate principles of naval architecture	35
	No Previous Equivalent			MARL6005A	Apply advanced principles of marine electrotechnology	50
	No Previous Equivalent			MARL6006A	Apply advanced principles of marine engineering thermodynamics	45
	No Previous Equivalent			MARL6007A	Apply advanced principles of marine mechanics	45
	No Previous Equivalent			MARL6008A	Apply advanced principles of naval architecture	45
	No Previous Equivalent			MARL6009A	Demonstrate basic knowledge of ship construction	35
	No Previous Equivalent			MARL6010A	Demonstrate basic knowledge of ship operation and maintenance	25
	No Previous Equivalent			MARL6011A	Demonstrate intermediate knowledge of marine auxiliary boilers	25
	No Previous Equivalent			MARL6012A	Demonstrate intermediate knowledge of marine auxiliary machinery and systems	35
TDMMB4207A	Test, detect faults and maintain and restore electronic control equipment to operating condition on vessels over 750 kW propulsion power	24	E	MARL6013A	Demonstrate intermediate knowledge of marine control systems and automation	25
	No Previous Equivalent			MARL6014A	Demonstrate intermediate knowledge of marine diesel engines and systems	35
	No Previous Equivalent			MARL6015A	Demonstrate intermediate knowledge of marine electrical systems	35
TDMMR5807A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels over 750 kW propulsion power	76	E	MARL6016A	Demonstrate intermediate knowledge of marine steam turbines and main boilers	70
	No Previous Equivalent			MARL6017A	Demonstrate advanced knowledge of marine auxiliary boilers	35
	No Previous Equivalent			MARL6018A	Demonstrate advanced knowledge of marine auxiliary machinery and systems	45
	No Previous Equivalent			MARL6019A	Demonstrate advanced knowledge of marine control systems and automation	50
	No Previous Equivalent			MARL6020A	Demonstrate advanced knowledge of marine diesel engines and systems	45
	No Previous Equivalent			MARL6021A	Demonstrate advanced knowledge of marine electrical systems	50

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
TDMMR5707A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels of unlimited propulsion power	103	E	MARL6022A	Demonstrate advanced knowledge of marine steam turbines and main boilers	70
	No Previous Equivalent			MARL6023A	Demonstrate advanced knowledge of ship operation and maintenance	50
	No Previous Equivalent			MARM3001A	Apply knowledge of safety management system legal framework in the workplace	35
	No Previous Equivalent			MARM3002A	Apply vessel construction theory to marine survey tasks	35
	No Previous Equivalent			MARM3003A	Identify factors that affect a commercial vessels's fitness for purpose	35
	No Previous Equivalent			MARM3004A	Work in the marine surveying sector	20
	No Previous Equivalent			MARM4001A	Assess compliance with marine environment protection requirements	25
	No Previous Equivalent			MARM4002A	Assist in the survey of commercial vessels	20
	No Previous Equivalent			MARM4003A	Assist in the survey of vessel mechanical features	20
	No Previous Equivalent			MARM4004A	Evaluate vessel stability	20
	No Previous Equivalent			MARM4005A	Implement a systematic approach to the audit of safety management systems	20
	No Previous Equivalent			MARM4006A	Survey lifesaving appliances, fire and other safety systems	20
	No Previous Equivalent			MARM5001A	Calculate, assess and report on vessel trim and stability	90
	No Previous Equivalent			MARM5002A	Conduct a range of surveys on domestic commercial vessels	50
	No Previous Equivalent			MARM5003A	Conduct an audit of safety management systems	45
	No Previous Equivalent			MARM5004A	Develop marine survey reports	35
	No Previous Equivalent			MARM5005A	Participate in investigating marine incidents	45
	No Previous Equivalent			MARM5006A	Survey hull and superstructure of a commercial vessel	35
	No Previous Equivalent			MARM5007A	Survey vessel operational systems	35
	No Previous Equivalent			MARM5008A	Undertake a periodic statutory survey	45
	No Previous Equivalent			MARM5009A	Establish a marine surveyor practice	45
	No Previous Equivalent			MARN1001A	Apply general purpose hand skills aboard a vessel	25
	No Previous Equivalent			MARN2001A	Apply seamanship skills aboard a vessel up to 12 metres	45
	No Previous Equivalent			MARN3001A	Perform seamanship operations on board a	20

TDM07 Current Unit of Competency				MAR13 Replacement Unit of Competency		
National ID	Title	Hours	E/ NE	National ID	Title	Hours
					vessel up to 24 metres	
	No Previous Equivalent			MARN3002A	Use seamanship skills on board a vessel	45
TDMMB607B	Monitor condition and seaworthiness of a coastal vessel up to 80 metres	21	E	MARN4001A	Manage seaworthiness of a vessel up to 80 metres	20
TDMMB4607A	Apply information on vessel structure to maintenance and seaworthiness	50	E	MARN5001A	Maintain seaworthiness of a vessel	40
	No Previous Equivalent			MARN6001A	Manage cargo operations	50
	No Previous Equivalent			MARO1001A	Perform basic lookout duties	15
	No Previous Equivalent			MARO3001A	Contribute to monitoring and controlling a safe engine watch	10
	No Previous Equivalent			MARO3002A	Contribute to monitoring and controlling a safe navigational watch	10
TDMMF3007B	Maintain a safe navigational watch	100	E	MARO5001A	Maintain a safe navigational watch	90
TDMME807C	Transmit and receive information by GMDSS subsystems and equipment	70	E	MARO5002A	Transmit and receive information by the Global Maritime Distress and Safety System	70
TDMME307B	Transmit and receive information by visual signalling	7	E	MARO5003A	Transmit and receive information by visual signalling	15

## Deleted Units of Competency

The following table provides an overview of the units of competency from the TDM07 Maritime Training Package which are deleted in version 1 of the MAR13 Maritime Training Package

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMMA107B	Plan and ensure safe loading, stowage, security and unloading of cargo	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN6001A Manage cargo operations
TDMMA207B	Plan and ensure safe care of cargo during the voyage	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN6001A Manage cargo operations
TDMMA307B	Plan and monitor the carriage of dangerous cargoes	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN6001A Manage cargo operations
TDMMA407B	Manage procedures for the handling, loading and discharging of liquefied gas cargoes	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied gas tankers
TDMMA507B	Manage procedures for the handling, loading and discharging of chemical cargoes	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied gas tankers
TDMMA607B	Manage procedures for the handling, loading and discharging of oil cargoes	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied gas tankers
TDMMA707B	Monitor the loading, stowage, security and unloading of cargo	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARA5002A Monitor loading, unloading and stowage of cargo AND MARN6001A Manage cargo operations
TDMMA807B	Monitor the care of cargo during a voyage	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARA5002A Monitor loading, unloading and stowage of cargo AND MARN6001A Manage cargo operations
TDMMA907B	Prepare a cargo plan for cargo loading and unloading operations within limits of responsibility of a Master 4	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARA4001A Manage loading, discharging and stowage of cargo
TDMMA1007B	Control trim, stability and stress	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARA6001A Manage stability of a vessel 500 gross tonnage or more
TDMMA1107B	Maintain the stability of a vessel using basic stability information	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN3001A Perform seamanship operations on board a vessel up to 24 metres
TDMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARA4002A Manage vessel stability
TDMMA1607B	Manage loading and embarkation procedures on roll-on roll-off vessels	Unit deleted - Unit not appropriate at this point; area of work may require further investigation
TDMMA1707A	Determine the stability and trim of the vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARA5001A Maintain vessel stability
TDMMB107C	Perform routine remedial, preventative and	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARB3003A Perform routine

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
	survey deck maintenance on a vessel	maintenance and repairs on a vessel
TDMMB407B	Maintain seaworthiness of vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6004A Apply intermediate principles of naval architecture AND MARL6010A Demonstrate basic knowledge of ship operation and maintenance
TDMMB507B	Manage the maintenance of the vessel	Unit deleted – Not equivalent - Work covered by a range of other units
TDMMB607B	Monitor condition and seaworthiness of a coastal vessel up to 80 metres	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARN4001A Manage seaworthiness of a vessel up to 80 metres
TDMMB707B	Slip vessel and maintain hull	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARB3005A Slip or dock a vessel and maintain hull on a vessel up to 80 metres
TDMMB807B	Detect and identify the cause of machinery malfunctions and repair faults on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems
TDMMB907B	Manage safe maintenance and repair procedures on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6023A Demonstrate advanced knowledge of ship operation and maintenance
TDMMB1207B	Fault-find, dismantle, maintain and repair shipboard plant and equipment	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5008A Demonstrate basic knowledge of marine diesel engines and systems
TDMMB1307B	Carry out shipboard fabrication and repair operations	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5008A Demonstrate basic knowledge of marine diesel engines and systems
TDMMB1507B	Detect and identify the cause of machinery malfunctions and repair faults on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems
TDMMB1607B	Organise safe maintenance and repair procedures on vessels of over 750 kW of propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems
TDMMB1907B	Carry out basic hull servicing	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARC2002A Maintain hull out of water
TDMMB2007B	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB3002A Perform routine engine maintenance on a vessel AND MARC3008A Operate engine equipment and associated propulsion plant
TDMMB2907B	Recognise and correct deteriorated fittings and machinery	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARB3006A Maintain marine internal combustion engines, propulsion plant and auxiliary systems
TDMMB3107B	Organise maintenance and repairs on a small vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components
TDMMB3507B	Employ damage control techniques for hull damage	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components
TDMMB3607B	Prepare a small vessel's machinery for sea within the limits of responsibility of a Marine Engine Driver Grade 3	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC2001A Complete engine room tasks



TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMMB3707B	Fabricate simple shipboard components	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARC5001A Employ tools, equipment and materials in a shipboard context
TDMMB3807B	Dismantle, inspect, repair and reassemble vessel machinery	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB5002A Maintain and repair shipboard machinery and equipment
TDMMB3907A	Manage the testing, detection of faults, maintenance and restoration of electrical machinery and equipment to operating condition on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6005A Apply advanced principles of marine electrotechnology AND MARL6021A Demonstrate advanced knowledge of marine electrical system
TDMMB4007A	Manage the testing, detection of faults, maintenance and restoration of electronic control equipment to operating condition on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6019A Demonstrate advanced knowledge of marine control systems and automation
TDMMB4107A	Test, detect faults and maintain and restore electrical machinery and equipment to operating condition on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6015A Demonstrate intermediate knowledge of marine electrical systems
TDMMB4207A	Test, detect faults and maintain and restore electronic control equipment to operating condition on vessels over 750 kW propulsion power	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARL6013A Demonstrate intermediate knowledge of marine control systems and automation
TDMMB4307A	Monitor and manage the seaworthiness of the vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARB6001A Manage repairs and maintenance of a vessel 500 gross tonnage or more
TDMMB4507A	Monitor condition and seaworthiness of a small vessel up to 24 metres	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN2001A Apply seamanship skills aboard a vessel up to 12 metres AND MARN3001A Perform seamanship operations on board a vessel up to 24 metres
TDMMB4607A	Apply information on vessel structure to maintenance and seaworthiness	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARN5001A Maintain seaworthiness of a vessel
TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB3004A Perform routine maintenance on a vessel up to 24 metres AND MARB4005A Plan and supervise routine maintenance on a vessel up to 80 metres
TDMMC107B	Manoeuvre and handle a vessel of 500 gross tonnage or more under all conditions	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARK6001A Manoeuvre a vessel 500 gross tonnage or more
TDMMC207B	Operate remote controls of propulsion plant and engineering systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARK6001A Manoeuvre a vessel 500 gross tonnage or more
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARK5001A Perform basic vessel manoeuvres AND MARK6001A Manoeuvre a vessel 500 gross tonnage or more
TDMMC407B	Manoeuvre the vessel and operate small power plants within limits of responsibility of a	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARK5001A Perform basic vessel manoeuvres

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
	Master 3	
TDMMC507B	Manoeuvre a vessel within limits of responsibility of a Master 4	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARK4001A Manoeuvre a vessel up to 80 metres
TDMMC607B	Manage a propulsion unit using the appropriate engine systems and support services	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARC4001A Manage a propulsion unit using appropriate engine systems and support services
TDMMC707C	Apply seamanship skills and techniques when operating a small vessel within limits of responsibility of a Coxswain	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARK2001A Handle a vessel up to 12 metres AND MARN2001A Apply seamanship skills aboard a vessel up to 12 metres
TDMMC807B	Manoeuvre a vessel within the limits of responsibility of a Master 5	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARK3001A Manoeuvre a vessel up to 24 metres within near coastal waters
TDMMC907C	Manoeuvre a domestic vessel within the limits of responsibility of a Coxswain	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARK2001A Handle a vessel up to 12 metres
TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARK3002A Steer a vessel under direction of the Master
TDMME207B	Communicate using standard marine vocabulary	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARO5003A Transmit and receive information by visual signalling
TDMME507B	Transmit and receive information by marine radio or telephone	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARO5002A Transmit and receive information by the Global Maritime Distress and Safety System
TDMME707B	Use English in written and oral form to perform engineering duties	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARE5001A Communicate effectively when performing engineering duties
TDMME1007A	Transmit and receive information by marine VHF radio or telephone	Unit deleted – Not equivalent - Appropriate additional requirements stated in the preamble to relevant qualifications
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARG4001A Manage a small crew
TDMMF107B	Assist in search and rescue operations	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARF6001A Coordinate search and rescue operations
TDMMF307B	Manage business and legal requirements on a vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARD6001A Manage legal requirements of a vessel
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components AND MARF6003A Manage safety and security of vessel crew and passengers
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARF6003A Manage safety and security of vessel crew and passengers
TDMMF607B	Organise and manage the provision of medical care on board a vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARF6002A Manage provision of medical care on board a vessel
TDMMF1007B	Provide elementary first aid	Unit deleted – equivalent - Unit replaced with HLTF311A Apply first aid

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMMF1107B	Survive at sea in the event of vessel abandonment	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARF1001A Apply basic survival skills in the event of vessel abandonment AND MARF1006A Survive at sea using survival craft
TDMMF1407B	Plan and implement special safety, maintenance and emergency procedures for liquefied gas tankers	Unit deleted - Unit to be developed under continuous improvement process
TDMMF1507B	Plan and implement special safety, maintenance and emergency procedures for chemical tankers	Unit deleted - Unit to be developed under continuous improvement process
TDMMF1607B	Plan and implement special safety, maintenance and emergency procedures for oil tankers	Unit deleted - Unit to be developed under continuous improvement process
TDMMF1807B	Apply medical first aid on board a vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARF6002A Manage provision of medical care on board a vessel
TDMMF2207B	Maintain safety of engine equipment, systems and services on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6023A Demonstrate advanced knowledge of ship operation and maintenance
TDMMF2407B	Maintain safety of engine equipment, systems and services on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6010A Demonstrate basic knowledge of ship operation and maintenance
TDMMF2507B	Ensure safe working practices	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6023A Demonstrate advanced knowledge of ship operation and maintenance
TDMMF2607B	Establish watchkeeping arrangements and procedures	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more
TDMMF2707B	Prevent, control and fight fires on board a small vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components AND MARF1002A Follow procedures to minimise and fight fires on board a vessel
TDMMF2907B	Maintain a safe navigational watch on a coastal voyage	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARO5001A Maintain a safe navigational watch
TDMMF3107B	Maintain a safe engineering watch	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5011A Demonstrate basic knowledge of ships and ship routines
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARI2001A Comply with regulations to ensure safe operation of a vessel up to 12 metres AND MARI3001A Observe regulations to ensure safe operation of a vessel up to 80 metres
TDMMF3307B	Execute watchkeeping arrangements and procedures on a small vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARO5001A Maintain a safe navigational watch
TDMMF3507B	Contribute to maintaining a safe watch	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARO3001A Contribute to monitoring and controlling a safe engine watch AND MARO3002A Contribute to monitoring and controlling a safe navigational watch

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMMF3807B	Establish engine room watchkeeping procedures on vessels of less than 3,000 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5011A Demonstrate basic knowledge of ships and ship routines
TDMMF3907B	Maintain running log within the limits of responsibility of a Marine Engine Driver Grade 3	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC2001A Complete engine room tasks
TDMMF4007B	Carry out basic operational engineering calculations	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC2001A Complete engine room tasks
TDMMF4107B	Carry out engineering calculations related to maintenance and operations	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC4005A Operate marine internal combustion engines and associated systems up to 1500 kW AND MARL4001A Carry out engineering calculations
TDMMF4307B	Carry out fast rescue craft (FRC) operations	Unit deleted - Unit to be developed under continuous improvement process
TDMMF4407B	Apply safety regulations on roll-on roll-off passenger vessels	Unit deleted - Unit to be developed under continuous improvement process
TDMMF4707B	Contribute to maintaining a safe watch on a domestic vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH3002A Manage and maintain a navigational watch on board vessels up to 80 metres AND MARH3004A Use wheelhouse equipment for safe navigation
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARF1005A Meet work health and safety requirements
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARF1002A Follow procedures to minimise and fight fires on board a vessel
TDMMF5707A	Assist in safe operations and emergency procedures on a coastal vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN1001A Apply general purpose hand skills aboard a vessel
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied gas tankers AND MARA3002A Contribute to safe cargo operations on oil and chemical tankers
TDMMF5907A	Work safely in enclosed spaces on a vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARF3007A Work safely in confined spaces on a vessel
TDMMF6007A	Follow OHS and emergency procedures during shore-based mooring operations	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARF1004A Follow work health and safety, and emergency procedures during shore-based mooring operations
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARF4001A Manage firefighting and fire prevention activities on board a vessel
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARF3005A Prevent and fight fires on board a vessel
TDTG197B	Work effectively with others	Unit deleted – equivalent - Unit replaced with BSBWOR203B Work effectively with others
TDMMH107B	Plan a voyage and conduct navigation	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more
TDMMH207B	Determine position of the vessel and the accuracy of the resultant position	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMMH307B	Manage safe navigation through the use of radar and other navigational aids	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH5004A Use bridge equipment to determine vessel position
TDMMH507B	Use radar and other bridge equipment to maintain safe navigation	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH5004A Use bridge equipment to determine vessel position AND MARH5003A Use an electronic chart display and information system to navigate safely
TDMMH607B	Plan and conduct a coastal passage and determine position within limits of responsibility of a Master 4	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH3003A Plan and navigate a passage for a vessel up to 80 metres
TDMMH707B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 4	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARH4001A Forecast weather and oceanographic conditions
TDMMH807B	Plan and navigate an offshore passage within limits of responsibility of a Master 5	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH3003A Plan and navigate a passage for a vessel up to 80 metres AND MARH3004A Use wheelhouse equipment for safe navigation
TDMMH907B	Forecast weather and oceanographic conditions	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARH6001A Forecast weather and oceanographic conditions to plan a safe passage
TDMMH1007B	Navigate a high speed vessel	Unit deleted - Unit to be developed under continuous improvement process
TDMMH1107B	Use radar and other electronic navigational aids to maintain safe navigation within limits of responsibility of a Master 5	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH3003A Plan and navigate a passage for a vessel up to 80 metres AND MARH3004A Use wheelhouse equipment for safe navigation
TDMMH1207B	Plan and navigate a short voyage within inshore limits	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARH2001A Plan and navigate a passage for a vessel up to 12 metres
TDMMH1307B	Apply weather information when navigating a small vessel within limits of responsibility of a Master 5	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH3003A Plan and navigate a passage for a vessel up to 80 metres AND MARH3004A Use wheelhouse equipment for safe navigation
TDMMH1407A	Apply weather information when navigating a vessel within limits of responsibility of a Master 3	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage
TDMMH1507A	Measure and observe weather conditions and interpret and apply to watchkeeping	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage
TDMMH1607A	Determine position of the vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage
TDMMH1807A	Apply command navigation procedures on vessels (unlimited)	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more
TDMMH1907A	Plan a passage	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage
TDMMH2007A	Use radar and other wheelhouse equipment to maintain safe navigation within the limits of responsibility of a Master 4	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARH3004A Use wheelhouse equipment for safe navigation

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMLL307B	Establish and maintain a harmonious workplace environment	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARG5001A Provide leadership to crew
TDMLL407A	Manage administration of the vessel and its personnel	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARG6001A Manage a vessel and its crew
TDMMO107A	Follow maritime security procedures	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARF1003A Follow vessel security procedures
TDMMO207A	Carry out ship security officer functions	Unit deleted - Unit to be developed under continuous improvement process
TDMMR107B	Operate and maintain steering gear arrangements	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB3004A Perform routine maintenance on a vessel up to 24 metres
TDMMR207B	Use and maintain deck equipment and machinery	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MAR2004A Operate deck machinery
TDMMR307B	Operate fuel, fresh and sea water, bilge and fire pumping systems installed in a vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB3004A Perform routine maintenance on a vessel up to 24 metres
TDMMR407B	Operate electrical machinery and electronic control equipment on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6021A Demonstrate advanced knowledge of marine electrical systems
TDMMR507B	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6018A Demonstrate advanced knowledge of marine auxiliary machinery and systems AND MARL6023A Demonstrate advanced knowledge of ship operation and maintenance
TDMMR607B	Manage the operation, monitoring and evaluation of the performance of engines on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and system
TDMMR707B	Plan and schedule operations on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems
TDMMR807B	Manage the start up and shut down of main propulsion and auxiliary machinery and associated systems on vessels of unlimited propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems
TDMMR907B	Operate alternators, generators and control systems to supply shipboard electrical power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6019A Demonstrate advanced knowledge of marine control systems and automation AND MARL6021A Demonstrate advanced knowledge of marine electrical systems
TDMMR1007B	Operate pumping systems and associated control systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5006A Demonstrate basic knowledge of marine auxiliary machinery and systems
TDMMR1107B	Operate main and auxiliary machinery and associated control systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5006A Demonstrate basic knowledge of marine auxiliary machinery and systems AND MARL5008A Demonstrate basic knowledge of marine diesel engines and systems
TDMMR1307B	Operate electrical machinery and electronic control equipment on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6001A Apply intermediate principles of marine electrotechnology AND MARL6015A Demonstrate intermediate knowledge of marine electrical systems

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMMR1407B	Manage fuel, bilge and ballast operations procedures on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6010A Demonstrate basic knowledge of ship operation and maintenance AND MARL6012A Demonstrate intermediate knowledge of marine auxiliary machinery and systems
TDMMR1507B	Operate, monitor and evaluate engine performance on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6014A Demonstrate intermediate knowledge of marine diesel engines and systems
TDMMR1607B	Plan and schedule operations on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6010A Demonstrate basic knowledge of ship operation and maintenance
TDMMR1707B	Start up and shut down main propulsion and auxiliary machinery and associated systems on vessels over 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL6012A Demonstrate intermediate knowledge of marine auxiliary machinery and systems AND MARL6014A Demonstrate intermediate knowledge of marine diesel engines and systems
TDMMR1807B	Operate deck machinery installed on a small vessel of less than 750 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB3004A Perform routine maintenance on a vessel up to 24 metres
TDMMR1907B	Safely handle and stow explosive and flammable materials	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components
TDMMR2107B	Operate and maintain engines, machinery and auxiliary power sources on vessels of less than 3,000 kW propulsion power	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB5002A Maintain and repair shipboard machinery and equipment AND MARL5008A Demonstrate basic knowledge of marine diesel engines and systems
TDMMR2207B	Operate and maintain boiler systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5010A Demonstrate basic knowledge of marine steam turbines and main boilers
TDMMR2307B	Operate and maintain batteries, starter motors and power distribution systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC2003A Operate and maintain extra low and low voltage electrical systems and equipment
TDMMR2407B	Operate and maintain internal combustion engines and propulsion transmission systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components AND MARC4005A Operate marine internal combustion engines and associated systems up to 1500 kW
TDMMR2507B	Operate and maintain auxiliary machinery systems, including steering gear and refrigeration systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC4003A Operate auxiliary machinery systems up to 1500 kW AND MARC4005A Operate marine internal combustion engines and associated systems up to 1500 kW
TDMMR2607B	Operate, test and maintain marine electrical and control equipment	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB4006A Undertake maintenance of 240 to 440 voltage alternating current electrical systems AND MARC4007A Operate 240 to 440 voltage alternating current electrical systems
TDMMR2707B	Operate and maintain marine internal combustion engines within the limits of responsibility of a Marine Engine Driver Grade 2	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARC3005A Operate and monitor marine internal combustion engines, propulsion plant and auxiliary systems
TDMMR2807B	Operate and maintain auxiliary systems on vessels within limits of responsibility of a Marine Engine Driver Grade 2	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC3003A Operate and maintain a steam engine up to 750 kW and steam auxiliary equipment AND MARC3004A Operate and maintain engines for auxiliary systems other than steam auxiliary systems
TDMMR2907B	Operate and maintain marine low and medium voltage electrical systems	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARC3007A Operate electrical systems

TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
TDMMR3007B	Operate and carry out basic service checks on small vessel marine propulsion systems	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARC2005A Operate inboard and outboard motors
TDMMR3107B	Operate and carry out basic servicing on auxiliary systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB2002A Service marine internal combustion engines, and propulsion and auxiliary systems
TDMMR3207B	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC2003A Operate and maintain extra low and low voltage electrical systems
TDMMR3307B	Perform rigging and lifting operations on board a vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN3002A Use seamanship skills on board a vessel
TDMMR3407B	Operate deck machinery	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARC3006A Operate deck machinery, cargo handling gear and equipment on a vessel
TDMMR4307B	Assist in mooring and anchor handling activities	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN3002A Use seamanship skills on board a vessel
TDMMR4407B	Assist in completion of deck operations and maintenance documentation	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN3002A Use seamanship skills on board a vessel
TDMMR4507B	Provide support in completing cargo and bunkering operations	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARC3008A Operate engine equipment and associated propulsion plant AND MARN3002A Use seamanship skills on board a vessel
TDMMR4607B	Assist in basic welding, brazing, cutting and machinery operations on a vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB3002A Perform routine engine maintenance on a vessel
TDMMR4707B	Use and care for hand and power tools on a vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB3002A Perform routine engine maintenance on a vessel
TDMMR5007B	Carry out basic food handling, preparation, stock control and storage on an off-shore support vessel or rig	Unit deleted - Unit to be developed under continuous improvement process
TDMMR5107B	Carry out windlass operations on a rig	Unit deleted - Unit to be developed under continuous improvement process
TDMMR5207B	Carry out dogging and cargo handling operations at a rig	Unit deleted - Unit to be developed under continuous improvement process
TDMMR5307B	Carry out anchor handling, towage and supply duties at a rig	Unit deleted - Unit to be developed under continuous improvement process
TDMMR5407B	Carry out refueling and fuel transfer operations	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARB4003A Manage refuelling
TDMMR5507B	Perform seamanship, rigging and lifting operations on board a small domestic vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN3001A Perform seamanship operations on board a vessel up to 24 metres
TDMMR5707A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels of unlimited propulsion power	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARL6022A Demonstrate advanced knowledge of marine steam turbines and main boilers
TDMMR5807A	Manage the operation, monitoring and	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARL6016A Demonstrate



TDM07 Current Unit of Competency		MAR13 Version 1
National ID	Title	
	evaluation of the performance of steam propulsion plant on vessels over 750 kW propulsion power	intermediate knowledge of marine steam turbines and main boilers
TDMMR5907A	Operate steam propulsion plant and associated systems on steam vessels	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARL5010A Demonstrate basic knowledge of marine steam turbines and main boilers
TDMMR6007A	Assist in routine deck operations within limits of responsibility of a General Purpose Hand	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARN1001A Apply general purpose hand skills aboard a vessel AND MARB1001A Assist with routine maintenance of a vessel
TDMMR6107A	Use and care for hand and power tools on a small vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARB2002A Service marine internal combustion engines, and propulsion and auxiliary systems
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	Unit deleted – equivalent - Relevant aspects of unit incorporated into MARJ6001A Manage compliance with environmental management legislation
TDMMU407B	Ensure compliance with pollution prevention measures	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARJ2001A Follow environmental work practices AND MARJ5001A Ensure compliance with environmental management legislation
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	Unit deleted – Not equivalent - Relevant aspects of unit incorporated into MARJ2001A Follow environmental work practices AND MARJ3001A Monitor environmental management on a vessel

## Traineeships

The following table provides a summary of the qualifications in the MAR13 Maritime Training Package and the accredited traineeship courses they will replace.

TDM07 Current Qualification				MAR13 Replacement Qualification		
National ID	Title	Traineeship	Hours	National ID	Title	Hours
TDM20107	<i>Certificate II in Transport &amp; Distribution (Maritime Operations)</i>	<i>Transport and Distribution (Maritime Operations) (Level 2)</i>		<i>Qualification removed</i>		
TDM20307	Certificate II in Transport & Distribution (Coastal Maritime Operations - Coxswain)	Transport and Distribution (Maritime Operations - Coxswain) (Level 2)	199	MAR20113	Maritime Operations (Coxswain)	247
TDM20207	Certificate II in Transport & Distribution (Marine Engine Driving – Grade 3)	Transport and Distribution (Marine Engine Driving) (Level 2)	170	MAR20213	Maritime Operations (Marine Engine Driver Grade 3)	327
TDM30107	<i>Certificate III in Transport &amp; Distribution (Maritime Operations)</i>	<i>Transport and Distribution (Maritime Operations) (Level 3)</i>		<i>Qualification removed</i>		
TDM30307	Certificate III in Transport & Distribution (Maritime Operations – Integrated Rating)	Integrated Rating (Level 3)	573	MAR30113	Maritime Operations (Integrated Rating)	464
TDM30207	Certificate III in Transport & Distribution (Marine Engine Driving – Grade 2)	Transport & Distribution (Marine Engine Driving) (Level 3)	241	MAR30213	Maritime Operations (Marine Engine Driver Grade 2)	412