



**Australian Government**

# **MAR13 Maritime Training Package**

**Release: 1.0**

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# MAR13 Maritime Training Package

## Modification History

The version details of this endorsed Training Package and its predecessor are in the table below. The latest information is at the top of the table.

Version	Release Date	Comments
1.0	8 June 2013	Primary release. MAR13 Maritime Training Package supersedes TDM07 Maritime Training Package.

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## Preliminary Information

### Important Note to Users

Training Packages are not static documents; they are amended periodically to reflect the latest industry practices and are version controlled. It is essential that the latest version is always used.

### Check the version number before commencing training or assessment

This Training Package is Version 1 – check whether this is the latest version by going to the National Training Information Service ([www.ntis.gov.au](http://www.ntis.gov.au)) and locating information about the Training Package. Alternatively, contact Transport & Logistics Industry Skills Council ([www.tlisc.org.au](http://www.tlisc.org.au)) to confirm the latest version number.

### Explanation of version number conventions

The primary release Training Package is Version 1. When changes are made to a Training Package, sometimes the version number is changed and sometimes it is not, depending on the extent of the change. When a Training Package is reviewed it is considered to be a new Training Package for the purposes of version control, and is Version 1.0. Do not confuse the version number with the Training Package's national code (which remains the same during its period of endorsement).

### Explanation of the review date

The review date (shown on the title page and in the footer of each page) indicates when the Training Package is expected to be reviewed in the light of changes such as changing technologies and circumstances. The review date is not an expiry date. Endorsed Training Packages and their components remain current until they are reviewed or replaced.

## Summary of AQF qualifications in MAR13 Maritime Training Package

Code	Title
MAR10113	Certificate I in Maritime Operations (General Purpose Hand)
MAR10213	Certificate I in Maritime Operations (Linesperson)
MAR20113	Certificate II in Maritime Operations (Coxswain)
MAR20213	Certificate II in Maritime Operations (Marine Engine Driver Grade 3)
MAR30113	Certificate III in Maritime Operations (Integrated Rating)
MAR30213	Certificate III in Maritime Operations (Marine Engine Driver Grade 2)
MAR30313	Certificate III in Maritime Operations (Marine Engine Driver Steam)
MAR30413	Certificate III in Maritime Operations (Master up to 24 metres)
MAR30513	Certificate III in Maritime Operations (Master Inland Waters)
MAR30613	Certificate III in Maritime Operations (Marine Surveying)
MAR30713	Certificate III in Maritime Operations (Marine Cookery)
MAR40113	Certificate IV in Maritime Operations (Chief Integrated Rating)
MAR40213	Certificate IV in Maritime Operations (Marine Engine Driver Grade 1)
MAR40313	Certificate IV in Maritime Operations (Master up to 35 metres)
MAR40413	Certificate IV in Maritime Operations (Marine Surveying)
MAR50113	Diploma of Maritime Operations (Marine Engineering Class 3)
MAR50213	Diploma of Maritime Operations (Engineer Watchkeeper)
MAR50313	Diploma of Maritime Operations (Watchkeeper Deck)
MAR50413	Diploma of Maritime Operations (Master up to 500 GT or Master 80 metres)
MAR50513	Diploma of Maritime Operations (Marine Surveying)
MAR60113	Advanced Diploma of Maritime Operations (Marine Engineering Class 2)
MAR60213	Advanced Diploma of Maritime Operations (Master Unlimited)

MAR60313	Advanced Diploma of Maritime Operations (Marine Engineering Class 1)
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## AQF qualifications and Skill Sets by stream in MAR13 Maritime Training Package

The table below provides qualifications and Skill Sets in the MAR13 Maritime Training Package by stream.

Safety	MARSS00002 Safety Training Certification Skill Set MARSS00003 Shipboard Safety Skill Set
General Purpose Hand	MAR10113 Certificate I in Maritime Operations (General Purpose Hand)
Linesperson	MAR10213 Certificate I in Maritime Operations (Linesperson)
Coxswain	MAR20113 Certificate II in Maritime Operations (Coxswain) MARSS00001 Coxswain Grade 1 and Grade 2 Skill Set
Marine Cookery	MAR30713 Certificate III in Maritime Operations (Marine Cookery)
Marine Engine Driver	MAR20213 Certificate II in Maritime Operations (Marine Engine Driver Grade 3) MAR30213 Certificate III in Maritime Operations (Marine Engine Driver Grade 2) MAR30313 Certificate III in Maritime Operations (Marine Engine Driver Steam) MAR40213 Certificate IV in Maritime Operations (Marine Engine Driver Grade 1)
Marine Engineering	MAR50113 Diploma of Maritime Operations (Marine Engineering Class 3) MAR50213 Diploma of Maritime Operations (Engineer Watchkeeper) MAR60113 Advanced Diploma of Maritime Operations (Marine Engineering Class 2) MAR60313 Advanced Diploma of Maritime Operations (Marine Engineering Class 1)
Integrated Rating	MAR30113 Certificate III in Maritime Operations (Integrated Rating) MAR40113 Certificate IV in Maritime Operations (Chief Integrated Rating)

Marine Surveying	MAR30613 Certificate III in Maritime Operations (Marine Surveying) MAR40413 Certificate IV in Maritime Operations (Marine Surveying) MAR50513 Diploma of Maritime Operations (Marine Surveying)
Vessel Master	MAR30513 Certificate III in Maritime Operations (Master Inland Waters) MAR30413 Certificate III in Maritime Operations (Master up to 24 metres) MAR40313 Certificate IV in Maritime Operations (Master up to 35 metres) MAR50413 Diploma of Maritime Operations (Master up to 500 GT or Master 80 metres) MAR60213 Advanced Diploma of Maritime Operations (Master Unlimited)
Watchkeeper	MAR50313 Diploma of Maritime Operations (Watchkeeper Deck)

## Units of competency by field in MAR13 Maritime Training Package

This is a complete list of units of competency in the MAR13 Maritime Training Package, listed under field.

Note that none of the units of competency in the MAR13 Maritime Training Package have pre-requisite requirements.

<b>MARA Handling Cargo and Vessel Stability</b>	
MARA3001A	Contribute to safe cargo operations on liquefied gas tankers
MARA3002A	Contribute to safe cargo operations on oil and chemical tankers
MARA4001A	Manage loading, discharging and stowage of cargo
MARA4002A	Manage vessel stability
MARA5001A	Maintain vessel stability
MARA5002A	Monitor loading, unloading and stowage of cargo
MARA6001A	Manage stability of a vessel 500 gross tonnage or more
<b>MARB Equipment Checking and Maintenance</b>	
MARB1001A	Assist with routine maintenance of a vessel

MARB2001A	Perform basic servicing and maintenance of main propulsion unit and auxiliary systems
MARB2002A	Service marine internal combustion engines, and propulsion and auxiliary systems
MARB3001A	Maintain firefighting appliances
MARB3002A	Perform routine engine maintenance on a vessel
MARB3003A	Perform routine maintenance and repairs on a vessel
MARB3004A	Perform routine maintenance on a vessel up to 24 metres
MARB3005A	Slip or dock a vessel and maintain hull on a vessel up to 80 metres
MARB3006A	Maintain marine internal combustion engines, propulsion plant and auxiliary systems
MARB3007A	Undertake basic maintenance of electrical systems
MARB4001A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel
MARB4002A	Implement vessel planned maintenance system
MARB4003A	Manage refuelling
MARB4004A	Manage stores for planned maintenance system
MARB4005A	Plan and supervise routine maintenance on a vessel up to 80 metres
MARB4006A	Undertake maintenance of 240 to 440 voltage alternating current electrical systems
MARB4007A	Undertake maintenance of machinery, machinery systems and structural components
MARB5001A	Maintain and repair marine electrical and electronic equipment
MARB5002A	Maintain and repair shipboard machinery and equipment
MARB6001A	Manage repairs and maintenance of a vessel 500 gross tonnage or more
<b>MARC Equipment Operations</b>	
MARC1001A	Carry out shore-based mooring and untying operations
MARC2001A	Complete engine room tasks



MARC2002A	Maintain hull out of water
MARC2003A	Operate and maintain extra low and low voltage electrical systems and equipment
MARC2004A	Operate deck machinery
MARC2005A	Operate inboard and outboard motors
MARC2006A	Operate main propulsion unit and auxiliary systems
MARC2007A	Operate marine internal combustion engines, and propulsion and auxiliary systems
MARC3001A	Manage fuel systems
MARC3002A	Operate and maintain a boiler
MARC3003A	Operate and maintain a steam engine up to 750 kW and steam auxiliary equipment
MARC3004A	Operate and maintain engines for auxiliary systems other than steam auxiliary systems
MARC3005A	Operate and monitor marine internal combustion engines, propulsion plant and auxiliary systems
MARC3006A	Operate deck machinery, cargo handling gear and equipment on a vessel
MARC3007A	Operate electrical systems
MARC3008A	Operate engine equipment and associated propulsion plant
MARC4001A	Manage a propulsion unit using appropriate engine systems and support services
MARC4002A	Monitor and manage vessel operations
MARC4003A	Operate auxiliary machinery systems up to 1500 kW
MARC4004A	Operate deck machinery and steering gear on a vessel up to 80 metres
MARC4005A	Operate marine internal combustion engines and associated systems up to 1500 kW
MARC4006A	Operate propulsion transmission systems up to 1500 kW
MARC4007A	Operate 240 to 440 voltage alternating current electrical systems

MARC5001A	Employ tools, equipment and materials in a shipboard context
<b>MARD Administration and Human Resources</b>	
MARD5001A	Manage business and administration on vessels limited by tonnage or near coastal operations
MARD5002A	Manage operations and maintenance on vessels limited by tonnage or near coastal operations
MARD6001A	Manage legal requirements of a vessel
<b>MARE Communication</b>	
MARE1001A	Communicate during shore-based mooring and untying operations
MARE5001A	Communicate effectively when performing engineering duties
<b>MARF Operational Quality and Safety</b>	
MARF1001A	Apply basic survival skills in the event of vessel abandonment
MARF1002A	Follow procedures to minimise and fight fires on board a vessel
MARF1003A	Follow vessel security procedures
MARF1004A	Follow work health and safety, and emergency procedures during shore-based mooring operations
MARF1005A	Meet work health and safety requirements
MARF1006A	Survive at sea using survival craft
MARF3001A	Assist in an emergency response
MARF3002A	Observe personal safety and social responsibility
MARF3003A	Operate emergency equipment and apply emergency procedures
MARF3004A	Operate survival craft and other lifesaving appliances
MARF3005A	Prevent and fight fires on board a vessel
MARF3006A	Survive at sea in the event of vessel abandonment
MARF3007A	Work safely in confined spaces on a vessel
MARF4001A	Manage firefighting and fire prevention activities on board a vessel

MARF5001A	Control safe access to and on vessel
MARF5002A	Provide medical first aid on board a vessel
MARF5003A	Respond to emergencies
MARF6001A	Coordinate search and rescue operations
MARF6002A	Manage provision of medical care on board a vessel
MARF6003A	Manage safety and security of vessel crew and passengers
<b>MARG Teamwork</b>	
MARG1001A	Work effectively as part of a crew on a vessel up to 80 metres
MARG4001A	Manage a small crew
MARG4002A	Manage an engine room and small engineering team
MARG4003A	Supervise a crew
MARG5001A	Provide leadership to crew
MARG6001A	Manage a vessel and its crew
<b>MARH Navigation</b>	
MARH2001A	Plan and navigate a passage for a vessel up to 12 metres
MARH3001A	Apply weather information when navigating inland waters as Master
MARH3002A	Manage and maintain a navigational watch on board vessels up to 80 metres
MARH3003A	Plan and navigate a passage for a vessel up to 80 metres
MARH3004A	Use wheelhouse equipment for safe navigation
MARH4001A	Forecast weather and oceanographic conditions
MARH5001A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations
MARH5002A	Plan and conduct a passage
MARH5003A	Use an electronic chart display and information system to navigate safely

MARH5004A	Use bridge equipment to determine vessel position
MARH6001A	Forecast weather and oceanographic conditions to plan a safe passage
MARH6002A	Manage the navigation of a vessel 500 gross tonnage or more
<b>MARI Regulations and Port Operations</b>	
MARI2001A	Comply with regulations to ensure safe operation of a vessel up to 12 metres
MARI3001A	Observe regulations to ensure safe operation of a vessel up to 80 metres
<b>MARJ Environment</b>	
MARJ2001A	Follow environmental work practices
MARJ3001A	Monitor environmental management on a vessel
MARJ5001A	Ensure compliance with environmental management legislation
MARJ5002A	Inspect and report defects and damage to vessel
MARJ6001A	Manage compliance with environmental management legislation
<b>MARK Manoeuvring Vessels</b>	
MARK2001A	Handle a vessel up to 12 metres
MARK3001A	Manoeuvre a vessel up to 24 metres within near coastal waters
MARK3002A	Steer a vessel under direction of the Master
MARK4001A	Manoeuvre a vessel up to 80 metres
MARK5001A	Perform basic vessel manoeuvres
MARK6001A	Manoeuvre a vessel 500 gross tonnage or more
<b>MARL Marine Engineering</b>	
MARL4001A	Carry out engineering calculations
MARL5001A	Apply basic principles of marine electrotechnology
MARL5002A	Apply basic principles of marine engineering thermodynamics
MARL5003A	Apply basic principles of marine mechanics

MARL5004A	Apply basic principles of naval architecture
MARL5005A	Demonstrate basic knowledge of marine auxiliary boilers
MARL5006A	Demonstrate basic knowledge of marine auxiliary machinery and systems
MARL5007A	Demonstrate basic knowledge of marine control systems and automation
MARL5008A	Demonstrate basic knowledge of marine diesel engines and systems
MARL5009A	Demonstrate basic knowledge of marine electrical systems
MARL5010A	Demonstrate basic knowledge of marine steam turbines and main boilers
MARL5011A	Demonstrate basic knowledge of ships and ship routines
MARL5012A	Perform basic marine engineering calculations
MARL6001A	Apply intermediate principles of marine electrotechnology
MARL6002A	Apply intermediate principles of marine engineering thermodynamics
MARL6003A	Apply intermediate principles of marine mechanics
MARL6004A	Apply intermediate principles of naval architecture
MARL6005A	Apply advanced principles of marine electrotechnology
MARL6006A	Apply advanced principles of marine engineering thermodynamics
MARL6007A	Apply advanced principles of marine mechanics
MARL6008A	Apply advanced principles of naval architecture
MARL6009A	Demonstrate basic knowledge of ship construction
MARL6010A	Demonstrate basic knowledge of ship operation and maintenance
MARL6011A	Demonstrate intermediate knowledge of marine auxiliary boilers
MARL6012A	Demonstrate intermediate knowledge of marine auxiliary machinery and systems
MARL6013A	Demonstrate intermediate knowledge of marine control systems and automation

MARL6014A	Demonstrate intermediate knowledge of marine diesel engines and systems
MARL6015A	Demonstrate intermediate knowledge of marine electrical systems
MARL6016A	Demonstrate intermediate knowledge of marine steam turbines and main boilers
MARL6017A	Demonstrate advanced knowledge of marine auxiliary boilers
MARL6018A	Demonstrate advanced knowledge of marine auxiliary machinery and systems
MARL6019A	Demonstrate advanced knowledge of marine control systems and automation
MARL6020A	Demonstrate advanced knowledge of marine diesel engines and systems
MARL6021A	Demonstrate advanced knowledge of marine electrical systems
MARL6022A	Demonstrate advanced knowledge of marine steam turbines and main boilers
MARL6023A	Demonstrate advanced knowledge of ship operation and maintenance
<b>MARM Marine Surveying</b>	
MARM3001A	Apply knowledge of safety management system legal framework in the workplace
MARM3002A	Apply vessel construction theory to marine survey tasks
MARM3003A	Identify factors that affect a commercial vessel's fitness for purpose
MARM3004A	Work in the marine surveying sector
MARM4001A	Assess compliance with marine environment protection requirements
MARM4002A	Assist in the survey of commercial vessels
MARM4003A	Assist in the survey of vessel mechanical features
MARM4004A	Evaluate vessel stability
MARM4005A	Implement a systematic approach to the audit of safety management systems
MARM4006A	Survey lifesaving appliances, fire and other safety systems

MARM5001A	Calculate, assess and report on vessel trim and stability
MARM5002A	Conduct a range of surveys on domestic commercial vessels
MARM5003A	Conduct an audit of safety management systems
MARM5004A	Develop marine survey reports
MARM5005A	Participate in investigating marine incidents
MARM5006A	Survey hull and superstructure of a commercial vessel
MARM5007A	Survey vessel operational systems
MARM5008A	Undertake a periodic statutory survey
MARM5009A	Establish a marine surveyor practice
<b>MARN Seamanship</b>	
MARN1001A	Apply general purpose hand skills aboard a vessel
MARN2001A	Apply seamanship skills aboard a vessel up to 12 metres
MARN3001A	Perform seamanship operations on board a vessel up to 24 metres
MARN3002A	Use seamanship skills on board a vessel
MARN4001A	Manage seaworthiness of a vessel up to 80 metres
MARN5001A	Maintain seaworthiness of a vessel
MARN6001A	Manage cargo operations
<b>MARO Watchkeeping</b>	
MARO1001A	Perform basic lookout duties
MARO3001A	Contribute to monitoring and controlling a safe engine watch
MARO3002A	Contribute to monitoring and controlling a safe navigational watch
MARO5001A	Maintain a safe navigational watch
MARO5002A	Transmit and receive information by the Global Maritime Distress and Safety System
MARO5003A	Transmit and receive information by visual signalling

## Imported units of competency in MAR13 Maritime Training Package

Unit code	Unit title
BSBADM307B	Organise schedules
BSBFLM303C	Contribute to effective workplace relationships
BSBMGT403A	Implement continuous improvement
BSBWOR203B	Work effectively with others
BSBWOR301B	Organise personal work priorities and development
CHCCOM403A	Use targeted communication skills to build relationships
HLTFA311A	Apply first aid
HLTFA403C	Manage first aid in the workplace
PSPGOV314A	Contribute to conflict management
PSPREG201A	Carry out inspections and monitoring under guidance
PSPGOV417A	Identify and treat risks
PSPGOV421A	Exercise delegations
PSPREG401C	Exercise regulatory powers
PUALAW003B	Give evidence in a judicial or quasi-judicial setting
SITHCCC001B	Organise and prepare food
SITHCCC002A	Present food
SITHCCC003B	Receive and store kitchen supplies
SITHCCC004B	Clean and maintain kitchen premises
SITHCCC005A	Use basic methods of cookery
SITHCCC027A	Prepare, cook and serve food for food service
SITXCOM001A	Work with colleagues and customers



SITXINV002A	Control and order stock
SITXOHS001B	Follow health, safety and security procedures
SITXOHS002A	Follow workplace hygiene procedures
TLID1001A	Shift materials safely using manual handling methods

## Summary mapping MAR13 Maritime Training Package qualifications and Skill Sets

NA = Not applicable

E = equivalent (outcomes of old and new qualifications are equivalent)

NE = not equivalent (outcomes of old and new qualifications are not equivalent)

<b>TDM07 Maritime Training Package Version 1.2</b>	<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/NE</b>
NA	MARSS00002 Safety Training Certification Skill Set	New Skill Set	NA
NA	MARSS00003 Shipboard Safety Skill Set	New Skill Set	NA
NA	MARSS00001 Coxswain Grade 1 and Grade 2 Skill Set *NOTE: Entry requirement for this Skill Set is the MAR20113 Certificate II in Maritime Operations (Coxswain)	New Skill Set	NA
TDM10107 Certificate I in Transport Distribution (Maritime Operations)	NA	Qualification removed	
NA	MAR10113 Certificate I in Maritime Operations (General Purpose Hand)	New qualification	NA
TDM10207 Certificate I in Transport Distribution	MAR10213 Certificate I in Maritime Operations	Units revised to reflect current work	E

(Maritime Operations - Shore-Based Linesperson)	(Linesperson)	requirements; one new unit added for vessel security procedures	
TDM20107 Certificate II in Transport Distribution (Maritime Operations)	NA	Qualification removed	
TDM20307 Certificate II in Transport Distribution (Coastal Maritime Operations - Coxswain)	MAR20113 Certificate II in Maritime Operations (Coxswain)	Units revised to reflect current work requirements; total number of units required decreased	E
TDM20207 Certificate II in Transport Distribution (Marine Engine Driving - Grade 3)	MAR20213 Certificate II in Maritime Operations (Marine Engine Driver Grade 3)	Units revised to reflect current work requirements; total number of units required decreased	E
TDM30107 Certificate III in Transport Distribution (Maritime Operations)	NA	Qualification removed	
TDM30307 Certificate III in Transport Distribution (Maritime Operations - Integrated Rating)	MAR30113 Certificate III in Maritime Operations (Integrated Rating)	Units revised to reflect current work requirements	E
TDM30207 Certificate III in Transport Distribution (Marine Engine Driving - Grade 2)	MAR30213 Certificate III in Maritime Operations (Marine Engine Driver Grade 2)	Units revised to reflect current work requirements	E
NA	MAR30313 Certificate III in Maritime Operations (Marine Engine Driver Steam)	New qualification	NA
TDM30407 Certificate III in Transport Distribution (Coastal Maritime Operations - Master Class 5)	MAR30413 Certificate III in Maritime Operations (Master up to 24 metres)	Units revised to reflect current work requirements	E
NA	MAR30513 Certificate III in Maritime Operations (Master Inland Waters)	New qualification	NA
NA	MAR30613 Certificate III in Maritime Operations (Marine Surveying)	New qualification	NA

NA	MAR30713 Certificate III in Maritime Operations (Marine Cookery)	New qualification	NA
TDM40107 Certificate IV in Transport Distribution (Maritime Operations)	NA	Qualification removed	
NA	MAR40113 Certificate IV in Maritime Operations (Chief Integrated Rating)	New qualification	NA
TDM40207 Certificate IV in Transport Distribution (Marine Engine Driving - Grade 1)	MAR40213 Certificate IV in Maritime Operations (Marine Engine Driver Grade 1)	Units revised to reflect current work requirements	E
TDM40307 Certificate IV in Transport Distribution (Coastal Maritime Operations - Master Class 4)	MAR40313 Certificate IV in Maritime Operations (Master up to 35 metres)	Units revised to reflect current work requirements	E
NA	MAR40413 Certificate IV in Maritime Operations (Marine Surveying)	New qualification	NA
TDM50107 Diploma of Transport Distribution (Maritime Operations)	NA	Qualification removed	
TDM50407 Diploma of Transport Distribution (Coastal Marine Engineering - Engineer Class 3)	MAR50113 Diploma of Maritime Operations (Marine Engineering Class 3)	Units revised to reflect current work requirements	E
TDM50207 Diploma of Transport Distribution (Marine Engineering - Engineer Watchkeeper)	MAR50213 Diploma of Maritime Operations (Engineer Watchkeeper)	Units revised to reflect current work requirements	E
TDM50307 Diploma of Transport Distribution (Maritime Operations - Deck Watchkeeper)	MAR50313 Diploma of Maritime Operations (Watchkeeper Deck)	Units revised to reflect current work requirements	E
NA	MAR50413 Diploma of Maritime Operations (Master	New qualification	NA

	up to 500 GT or Master 80 metres)		
NA	MAR50513 Diploma of Maritime Operations (Marine Surveying)	New qualification	NA
TDM50507 Diploma of Transport Distribution (Coastal Maritime Operations - Master Class 3)	NA	Qualification removed	
TDM60107 Advanced Diploma of Transport Distribution (Maritime Operations)	NA	Qualification removed	
TDM60307 Advanced Diploma of Transport Distribution (Marine Engineering - Class 2)	MAR60113 Advanced Diploma of Maritime Operations (Marine Engineering Class 2)	Units revised to reflect current work requirements	E
TDM60407 Advanced Diploma of Transport Distribution (Maritime Operations - Master Unlimited)	MAR60213 Advanced Diploma of Maritime Operations (Master Unlimited)	Units revised to reflect current work requirements	E
TDM60207 Advanced Diploma of Transport Distribution (Marine Engineering - Class 1)	MAR60313 Advanced Diploma of Maritime Operations (Marine Engineering Class 1)	Units revised to reflect current work requirements	E

## Summary mapping MAR13 Maritime Training Package units of competency: MAR13 to TDM07

E = equivalent (outcomes of old and new units are equivalent)

MAR13 Maritime Training Package Version 1.0		TDM07 Maritime Training Package Version 1.0	
MARA Handling Cargo and Vessel Stability			
MARA3001A	Contribute to safe cargo operations on liquefied gas	Merger of units + work requirements updated	

	tankers		
MARA3002A	Contribute to safe cargo operations on oil and chemical tankers	Merger of units + work requirements updated	
MARA4001A	Manage loading, discharging and stowage of cargo	TDMMA907B Prepare a cargo plan for cargo loading and unloading operations within limits of responsibility of a Master 4	E
MARA4002A	Manage vessel stability	TDMMA1207B Manage stress and dynamic factors affecting a small vessel's stability	E
MARA5001A	Maintain vessel stability	TDMMA1707A Determine the stability and trim of the vessel	E
MARA5002A	Monitor loading, unloading and stowage of cargo	Merger of units + work requirements updated	
MARA6001A	Manage stability of a vessel 500 gross tonnage or more	TDMMA1007B Control trim, stability and stress	E
<b>MARB Equipment Checking and Maintenance</b>			
MARB1001A	Assist with routine maintenance of a vessel	Merger of units + work requirements updated	
MARB2001A	Perform basic servicing and maintenance of main propulsion unit and auxiliary systems	New unit	
MARB2002A	Service marine internal combustion engines, and propulsion and auxiliary systems	Merger of units + work requirements updated	
MARB3001A	Maintain firefighting appliances	New unit	
MARB3002A	Perform routine engine maintenance on a vessel	Merger of units + work requirements updated	
MARB3003A	Perform routine maintenance and repairs on a vessel	New unit	
MARB3004A	Perform routine maintenance on a vessel up to 24 metres	Merger of units + work requirements updated	
MARB3005A	Slip or dock a vessel and	TDMMB707B Slip vessel and	E

	maintain hull on a vessel up to 80 metres	maintain hull	
MARB3006A	Maintain marine internal combustion engines, propulsion plant and auxiliary systems	TDMMB2907B Recognise and correct deteriorated fittings and machinery	E
MARB3007A	Undertake basic maintenance of electrical systems	New unit	
MARB4001A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	TDMMR6207A Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	E
MARB4002A	Implement vessel planned maintenance system	New unit	
MARB4003A	Manage refuelling	TDMMR5407B Carry out refueling and fuel transfer operations	E
MARB4004A	Manage stores for planned maintenance system	New unit	
MARB4005A	Plan and supervise routine maintenance on a vessel up to 80 metres	Merger of units + work requirements updated	
MARB4006A	Undertake maintenance of 240 to 440 voltage alternating current electrical systems	Merger of units + work requirements updated	
MARB4007A	Undertake maintenance of machinery, machinery systems and structural components	Merger of units + work requirements updated	
MARB5001A	Maintain and repair marine electrical and electronic equipment	New unit	
MARB5002A	Maintain and repair shipboard machinery and equipment	Merger of units + work requirements updated	
MARB6001A	Manage repairs and maintenance of a vessel 500 gross tonnage or more	TDMMB4307A Monitor and manage the seaworthiness of the vessel	E
<b>MARC Equipment Operations</b>			

MARC1001A	Carry out shore-based mooring and untying operations	TDMMR5607A Carry out shore-based mooring and untying operations	E
MARC2001A	Complete engine room tasks	Merger of units + work requirements updated	
MARC2002A	Maintain hull out of water	TDMMB1907B Carry out basic hull servicing	E
MARC2003A	Operate and maintain extra low and low voltage electrical systems and equipment	Merger of units + work requirements updated	
MARC2004A	Operate deck machinery	New unit	
MARC2005A	Operate inboard and outboard motors	TDMMR3007B Operate and carry out basic service checks on small vessel marine propulsion systems	E
MARC2006A	Operate main propulsion unit and auxiliary systems	New unit	
MARC2007A	Operate marine internal combustion engines, and propulsion and auxiliary systems	New unit	
MARC3001A	Manage fuel systems	New unit	
MARC3002A	Operate and maintain a boiler	New unit	
MARC3003A	Operate and maintain a steam engine up to 750 kW and steam auxiliary equipment	Merger of units + work requirements updated	
MARC3004A	Operate and maintain engines for auxiliary systems other than steam auxiliary systems	Merger of units + work requirements updated	
MARC3005A	Operate and monitor marine internal combustion engines, propulsion plant and auxiliary systems	TDMMR2707B Operate and maintain marine internal combustion engines within the limits of responsibility of a Marine Engine Driver Grade 2	E
MARC3006A	Operate deck machinery, cargo handling gear and equipment on a vessel	TDMMR3407B Operate deck machinery	

MARC3007A	Operate electrical systems	TDMMR2907B Operate and maintain marine low and medium voltage electrical systems	
MARC3008A	Operate engine equipment and associated propulsion plant	Merger of units + work requirements updated	
MARC4001A	Manage a propulsion unit using appropriate engine systems and support services	TDMMC607B Manage a propulsion unit using the appropriate engine systems and support services	E
MARC4002A	Monitor and manage vessel operations	New unit	
MARC4003A	Operate auxiliary machinery systems up to 1500 kW	Merger of units + work requirements updated	
MARC4004A	Operate deck machinery and steering gear on a vessel up to 80 metres	New unit	
MARC4005A	Operate marine internal combustion engines and associated systems up to 1500 kW	Merger of units + work requirements updated	
MARC4006A	Operate propulsion transmission systems up to 1500 kW	New unit	
MARC4007A	Operate 240 to 440 voltage alternating current electrical systems	Merger of units + work requirements updated	
MARC5001A	Employ tools, equipment and materials in a shipboard context	TDMMB3707B Fabricate simple shipboard components	E
<b>MARD Administration and Human Resources</b>			
MARD5001A	Manage business and administration on vessels limited by tonnage or near coastal operations	TDMML507A Manage business and administration on vessels limited by tonnage or near coastal operations	E
MARD5002A	Manage operations and maintenance on vessels limited by tonnage or near coastal operations	TDMMB4807A Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	E



MARD6001A	Manage legal requirements of a vessel	TDMMF307B Manage business and legal requirements on a vessel	E
<b>MARE Communication</b>			
MARE1001A	Communicate during shore-based mooring and untying operations	TDMME907A Communicate during shore-based mooring and untying operations	E
MARE5001A	Communicate effectively when performing engineering duties	TDMME707B Use English in written and oral form to perform engineering duties	E
<b>MARF Operational Quality and Safety</b>			
MARF1001A	Apply basic survival skills in the event of vessel abandonment	Merger of units + work requirements updated	
MARF1002A	Follow procedures to minimise and fight fires on board a vessel	Merger of units + work requirements updated	
MARF1003A	Follow vessel security procedures	TDMMO107A Follow maritime security procedures	E
MARF1004A	Follow work health and safety, and emergency procedures during shore-based mooring operations	TDMMF6007A Follow OHS and emergency procedures during shore-based mooring operations	E
MARF1005A	Meet work health and safety requirements	TDMMF5407A Observe safety and emergency procedures on a coastal vessel	E
MARF1006A	Survive at sea using survival craft	Merger of units + work requirements updated	
MARF3001A	Assist in an emergency response	New unit	
MARF3002A	Observe personal safety and social responsibility	TDMMF5607A Observe personal safety and social responsibilities	E
MARF3003A	Operate emergency equipment and apply emergency procedures	TDMMF2307B Operate emergency equipment and apply emergency procedures	E
MARF3004A	Operate survival craft and other lifesaving appliances	TDMMF1907B Operate survival craft and other lifesaving appliances	E

MARF3005A	Prevent and fight fires on board a vessel	TDMMF6207A Prevent, control and fight fires on board an ocean-going vessel	E
MARF3006A	Survive at sea in the event of vessel abandonment	New unit	
MARF3007A	Work safely in confined spaces on a vessel	TDMMF5907A Work safely in enclosed spaces on a vessel	E
MARF4001A	Manage firefighting and fire prevention activities on board a vessel	TDMMF6107A Manage marine fire fighting and prevention activities on board a vessel	E
MARF5001A	Control safe access to and on vessel	TDMMF2107B Control safe access to and on vessel	E
MARF5002A	Provide medical first aid on board a vessel	New unit	
MARF5003A	Respond to emergencies	New unit	
MARF6001A	Coordinate search and rescue operations	TDMMF107B Assist in search and rescue operations	E
MARF6002A	Manage provision of medical care on board a vessel	Merger of units + work requirements updated	
MARF6003A	Manage safety and security of vessel crew and passengers	Merger of units + work requirements updated	
<b>MARG Teamwork</b>			
MARG1001A	Work effectively as part of a crew on a vessel up to 80 metres	New unit	
MARG4001A	Manage a small crew	TDMME1107A Contribute to effective communications and teamwork on a coastal vessel	E
MARG4002A	Manage an engine room and small engineering team	New unit	
MARG4003A	Supervise a crew	New unit	
MARG5001A	Provide leadership to crew	TDMML307B Establish and maintain a harmonious workplace environment	E

MARG6001A	Manage a vessel and its crew	TDMML407A Manage administration of the vessel and its personnel	E
<b>MARH Navigation</b>			
MARH2001A	Plan and navigate a passage for a vessel up to 12 metres	TDMMH1207B Plan and navigate a short voyage within inshore limits	E
MARH3001A	Apply weather information when navigating inland waters as Master	New unit	
MARH3002A	Manage and maintain a navigational watch on board vessels up to 80 metres	Merger of units + work requirements updated	
MARH3003A	Plan and navigate a passage for a vessel up to 80 metres	Merger of units + work requirements updated	
MARH3004A	Use wheelhouse equipment for safe navigation	Merger of units + work requirements updated	
MARH4001A	Forecast weather and oceanographic conditions	TDMMH707B Apply weather information when navigating a small vessel within limits of responsibility of a Master 4	E
MARH5001A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	TDMMH1707A Apply command navigation procedures on vessels limited by tonnage or near coastal operations	E
MARH5002A	Plan and conduct a passage	Merger of units + work requirements updated	
MARH5003A	Use an electronic chart display and information system to navigate safely	Merger of units + work requirements updated	
MARH5004A	Use bridge equipment to determine vessel position	Merger of units + work requirements updated	
MARH6001A	Forecast weather and oceanographic conditions to plan a safe passage	TDMMH907B Forecast weather and oceanographic conditions	E

MARH6002A	Manage the navigation of a vessel 500 gross tonnage or more	Merger of units + work requirements updated	
<b>MARI Regulations and Port Operations</b>			
MARI2001A	Comply with regulations to ensure safe operation of a vessel up to 12 metres	Merger of units + work requirements updated	
MARI3001A	Observe regulations to ensure safe operation of a vessel up to 80 metres	Merger of units + work requirements updated	
<b>MARJ Environment</b>			
MARJ2001A	Follow environmental work practices	Merger of units + work requirements updated	
MARJ3001A	Monitor environmental management on a vessel	Merger of units + work requirements updated	
MARJ5001A	Ensure compliance with environmental management legislation	Merger of units + work requirements updated	
MARJ5002A	Inspect and report defects and damage to vessel	New unit	
MARJ6001A	Manage compliance with environmental management legislation	TDMMU107B Monitor compliance with legislative requirements and measures to ensure protection of the environment	E
<b>MARK Manoeuvring Vessels</b>			
MARK2001A	Handle a vessel up to 12 metres	Merger of units + work requirements updated	
MARK3001A	Manoeuvre a vessel up to 24 metres within near coastal waters	TDMMC807B Manoeuvre a vessel within the limits of responsibility of a Master 5	E
MARK3002A	Steer a vessel under direction of the Master	TDMMC1007C Steer a domestic vessel under the direction of the master or officer in charge of the watch	E

MARK4001A	Manoeuvre a vessel up to 80 metres	TDMMC507B Manoeuvre a vessel within limits of responsibility of a Master 4	E
MARK5001A	Perform basic vessel manoeuvres	Merger of units + work requirements updated	
MARK6001A	Manoeuvre a vessel 500 gross tonnage or more	Merger of units + work requirements updated	
<b>MARL Marine Engineering</b>			
MARL4001A	Carry out engineering calculations	Merger of units + work requirements updated	
MARL5001A	Apply basic principles of marine electrotechnology	New unit	
MARL5002A	Apply basic principles of marine engineering thermodynamics	New unit	
MARL5003A	Apply basic principles of marine mechanics	New unit	
MARL5004A	Apply basic principles of naval architecture	New unit	
MARL5005A	Demonstrate basic knowledge of marine auxiliary boilers	New unit	
MARL5006A	Demonstrate basic knowledge of marine auxiliary machinery and systems	Merger of units + work requirements updated	
MARL5007A	Demonstrate basic knowledge of marine control systems and automation	New unit	
MARL5008A	Demonstrate basic knowledge of marine diesel engines and systems	Merger of units + work requirements updated	
MARL5009A	Demonstrate basic knowledge of marine electrical systems	New unit	
MARL5010A	Demonstrate basic knowledge of marine steam turbines and main boilers	Merger of units + work requirements updated	

MARL5011A	Demonstrate basic knowledge of ships and ship routines	Merger of units + work requirements updated	
MARL5012A	Perform basic marine engineering calculations	New unit	
MARL6001A	Apply intermediate principles of marine electrotechnology	Merger of units + work requirements updated	
MARL6002A	Apply intermediate principles of marine engineering thermodynamics	New unit	
MARL6003A	Apply intermediate principles of marine mechanics	New unit	
MARL6004A	Apply intermediate principles of naval architecture	Merger of units + work requirements updated	
MARL6005A	Apply advanced principles of marine electrotechnology	Merger of units + work requirements updated	
MARL6006A	Apply advanced principles of marine engineering thermodynamics	New unit	
MARL6007A	Apply advanced principles of marine mechanics	New unit	
MARL6008A	Apply advanced principles of naval architecture	New unit	
MARL6009A	Demonstrate basic knowledge of ship construction	New unit	
MARL6010A	Demonstrate basic knowledge of ship operation and maintenance	Merger of units + work requirements updated	
MARL6011A	Demonstrate intermediate knowledge of marine auxiliary boilers	New unit	
MARL6012A	Demonstrate intermediate knowledge of marine auxiliary machinery and systems	Merger of units + work requirements updated	
MARL6013A	Demonstrate intermediate knowledge of marine control systems and automation	TDMMB4207A Test, detect faults and maintain and restore electronic control equipment to operating	E

		condition on vessels over 750 kW propulsion power	
MARL6014A	Demonstrate intermediate knowledge of marine diesel engines and systems	Merger of units + work requirements updated	
MARL6015A	Demonstrate intermediate knowledge of marine electrical systems	Merger of units + work requirements updated	
MARL6016A	Demonstrate intermediate knowledge of marine steam turbines and main boilers	TDMMR5807A Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels over 750 kW propulsion power	E
MARL6017A	Demonstrate advanced knowledge of marine auxiliary boilers	New unit	
MARL6018A	Demonstrate advanced knowledge of marine auxiliary machinery and systems	Merger of units + work requirements updated	
MARL6019A	Demonstrate advanced knowledge of marine control systems and automation	Merger of units + work requirements updated	
MARL6020A	Demonstrate advanced knowledge of marine diesel engines and systems	Merger of units + work requirements updated	
MARL6021A	Demonstrate advanced knowledge of marine electrical systems	Merger of units + work requirements updated	
MARL6022A	Demonstrate advanced knowledge of marine steam turbines and main boilers	TDMMR5707A Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels of unlimited propulsion power	E
MARL6023A	Demonstrate advanced knowledge of ship operation and maintenance	Merger of units + work requirements updated	
<b>MARM Marine Surveying</b>			

MARM3001A	Apply knowledge of safety management system legal framework in the workplace	New unit	
MARM3002A	Apply vessel construction theory to marine survey tasks	New unit	
MARM3003A	Identify factors that affect a commercial vessel's fitness for purpose	New unit	
MARM3004A	Work in the marine surveying sector	New unit	
MARM4001A	Assess compliance with marine environment protection requirements	New unit	
MARM4002A	Assist in the survey of commercial vessels	New unit	
MARM4003A	Assist in the survey of vessel mechanical features	New unit	
MARM4004A	Evaluate vessel stability	New unit	
MARM4005A	Implement a systematic approach to the audit of safety management systems	New unit	
MARM4006A	Survey lifesaving appliances, fire and other safety systems	New unit	
MARM5001A	Calculate, assess and report on vessel trim and stability	New unit	
MARM5002A	Conduct a range of surveys on domestic commercial vessels	New unit	
MARM5003A	Conduct an audit of safety management systems	New unit	
MARM5004A	Develop marine survey reports	New unit	
MARM5005A	Participate in investigating marine incidents	New unit	
MARM5006A	Survey hull and superstructure of a commercial vessel	New unit	



MARM5007A	Survey vessel operational systems	New unit	
MARM5008A	Undertake a periodic statutory survey	New unit	
MARM5009A	Establish a marine surveyor practice	New unit	
<b>MARN Seamanship</b>			
MARN1001A	Apply general purpose hand skills aboard a vessel	Merger of units + work requirements updated	
MARN2001A	Apply seamanship skills aboard a vessel up to 12 metres	Merger of units + work requirements updated	
MARN3001A	Perform seamanship operations on board a vessel up to 24 metres	Merger of units + work requirements updated	
MARN3002A	Use seamanship skills on board a vessel	Merger of units + work requirements updated	
MARN4001A	Manage seaworthiness of a vessel up to 80 metres	TDMMB607B Monitor condition and seaworthiness of a coastal vessel up to 80 metres	E
MARN5001A	Maintain seaworthiness of a vessel	TDMMB4607A Apply information on vessel structure to maintenance and seaworthiness	E
MARN6001A	Manage cargo operations	Merger of units + work requirements updated	
<b>MARO Watchkeeping</b>			
MARO1001A	Perform basic lookout duties	New unit	
MARO3001A	Contribute to monitoring and controlling a safe engine watch	Merger of units + work requirements updated	
MARO3002A	Contribute to monitoring and controlling a safe navigational watch	Merger of units + work requirements updated	
MARO5001A	Maintain a safe navigational watch	TDMMF3007B Maintain a safe navigational watch	E
MARO5002A	Transmit and receive	TDMME807C Transmit and	E

	information by the Global Maritime Distress and Safety System	receive information by GMDSS subsystems and equipment	
MARO5003A	Transmit and receive information by visual signalling	TDMME307B Transmit and receive information by visual signalling	E

## Summary mapping MAR13 Maritime Training Package units of competency: TDM07 to MAR13

NA = Not applicable

E = equivalent (outcomes of old and new units of competency are equivalent)

NE = not equivalent (outcomes of old and new units of competency are not equivalent)

TDM07 Maritime Training Package Version 1.0		MAR13 Maritime Training Package Version 1.0	Comments	E/N
<b>A Handling Cargo and Vessel Stability</b>				
TDMMA107B	Plan and ensure safe loading, stowage, security and unloading of cargo	Unit deleted	Relevant aspects of unit incorporated into MARN6001A Manage cargo operations	N
TDMMA207B	Plan and ensure safe care of cargo during the voyage	Unit deleted	Relevant aspects of unit incorporated into MARN6001A Manage cargo operations	N
TDMMA307B	Plan and monitor the carriage of dangerous cargoes	Unit deleted	Relevant aspects of unit incorporated into MARN6001A Manage cargo operations	N
TDMMA407B	Manage procedures for the handling, loading and discharging of liquefied gas cargoes	Unit deleted	Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied gas tankers	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMA507B	Manage procedures for the handling, loading and discharging of chemical cargoes	Unit deleted	Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied gas tankers	N
TDMMA607B	Manage procedures for the handling, loading and discharging of oil cargoes	Unit deleted	Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied gas tankers	N
TDMMA707B	Monitor the loading, stowage, security and unloading of cargo	Unit deleted	Relevant aspects of unit incorporated into MARA5002A Monitor loading, unloading and stowage of cargo AND MARN6001A Manage cargo operations	N
TDMMA807B	Monitor the care of cargo during a voyage	Unit deleted	Relevant aspects of unit incorporated into MARA5002A Monitor loading, unloading and stowage of cargo AND MARN6001A Manage cargo operations	N
TDMMA907B	Prepare a cargo plan for cargo loading and unloading operations within limits of responsibility of a Master 4	Unit deleted	Relevant aspects of unit incorporated into MARA4001A Manage loading, discharging and stowage of cargo	E
TDMMA1007B	Control trim, stability and stress	Unit deleted	Relevant aspects of unit incorporated into MARA6001A Manage stability of a vessel 500 gross tonnage or more	E

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMA1107B	Maintain the stability of a vessel using basic stability information	Unit deleted	Relevant aspects of unit incorporated into MARN3001A Perform seamanship operations on board a vessel up to 24 metres	N
TDMMA1207B	Manage stress and dynamic factors affecting a small vessel's stability	Unit deleted	Relevant aspects of unit incorporated into MARA4002A Manage vessel stability	E
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	NA
TDMMA1707A	Determine the stability and trim of the vessel	Unit deleted	Relevant aspects of unit incorporated into MARA5001A Maintain vessel stability	E
<b>B Equipment Checking and Maintenance</b>				
TDMMB107C	Perform routine remedial, preventative and survey deck maintenance on a vessel	Unit deleted	Relevant aspects of unit incorporated into MARB3003A Perform routine maintenance and repairs on a vessel	E
TDMMB407B	Maintain seaworthiness of vessel	Unit deleted	Relevant aspects of unit incorporated into MARL6004A Apply intermediate principles of naval architecture AND MARL6010A Demonstrate basic knowledge of ship operation and maintenance	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMB507B	Manage the maintenance of the vessel	Unit deleted	Work covered by a range of other units	N
TDMMB607B	Monitor condition and seaworthiness of a coastal vessel up to 80 metres	Unit deleted	Relevant aspects of unit incorporated into MARN4001A Manage seaworthiness of a vessel up to 80 metres	E
TDMMB707B	Slip vessel and maintain hull	Unit deleted	Relevant aspects of unit incorporated into MARB3005A Slip or dock a vessel and maintain hull on a vessel up to 80 metres	E
TDMMB807B	Detect and identify the cause of machinery malfunctions and repair faults on vessels of unlimited propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems	N
TDMMB907B	Manage safe maintenance and repair procedures on vessels of unlimited propulsion power	Unit deleted	MARL6023A Demonstrate advanced knowledge of ship operation and maintenance	N
TDMMB1207B	Fault-find, dismantle, maintain and repair shipboard plant and equipment	Unit deleted	Relevant aspects of unit incorporated into MARL5008A Demonstrate basic knowledge of marine diesel engines and systems	N
TDMMB1307B	Carry out shipboard fabrication and repair operations	Unit deleted	Relevant aspects of unit incorporated into MARL5008A	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			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	Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems	N
TDMMB1607B	Organise safe maintenance and repair procedures on vessels of over 750 kW of propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems	N
TDMMB1907B	Carry out basic hull servicing	Unit deleted	Relevant aspects of unit incorporated into MARC2002A Maintain hull out of water	E
TDMMB2007B	Assist engineer in the routine maintenance of main propulsion and ancillary machinery and systems	Unit deleted	Relevant aspects of unit incorporated into MARB3002A Perform routine engine maintenance on a vessel AND MARC3008A Operate engine equipment and associated propulsion plant	N
TDMMB2907B	Recognise and correct deteriorated fittings and machinery	Unit deleted	Relevant aspects of unit incorporated into MARB3006A Maintain marine internal combustion engines, propulsion plant and	E

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			auxiliary systems	
TDMMB3107B	Organise maintenance and repairs on a small vessel	Unit deleted	Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components	N
TDMMB3507B	Employ damage control techniques for hull damage	Unit deleted	Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components	N
TDMMB3607B	Prepare a small vessel's machinery for sea within the limits of responsibility of a Marine Engine Driver Grade 3	Unit deleted	Relevant aspects of unit incorporated into MARC2001A Complete engine room tasks	N
TDMMB3707B	Fabricate simple shipboard components	Unit deleted	Relevant aspects of unit incorporated into MARC5001A Employ tools, equipment and materials in a shipboard context	E
TDMMB3807B	Dismantle, inspect, repair and reassemble vessel machinery	Unit deleted	Relevant aspects of unit incorporated into MARB5002A Maintain and repair shipboard machinery and equipment	N
TDMMB3907A	Manage the testing, detection of faults, maintenance and restoration of electrical	Unit deleted	Relevant aspects of unit incorporated into MARL6005A Apply advanced principles of	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	machinery and equipment to operating condition on vessels of unlimited propulsion power		marine electrotechnology AND MARL6021A Demonstrate advanced knowledge of marine electrical systems	
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	Relevant aspects of unit incorporated into MARL6019A Demonstrate advanced knowledge of marine control systems and automation	N
TDMMB4107A	Test, detect faults and maintain and restore electrical machinery and equipment to operating condition on vessels over 750 kW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6015A Demonstrate intermediate knowledge of marine electrical systems	N
TDMMB4207A	Test, detect faults and maintain and restore electronic control equipment to operating condition on vessels over 750 kW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6013A Demonstrate intermediate knowledge of marine control systems and automation	E
TDMMB4307A	Monitor and manage the seaworthiness of the vessel	Unit deleted	Relevant aspects of unit incorporated into MARB6001A Manage repairs and maintenance of a vessel 500 gross tonnage or more	E
TDMMB4507A	Monitor condition and seaworthiness of a small vessel up to 24	Unit deleted	Relevant aspects of unit incorporated into MARN2001A Apply seamanship skills aboard	N



<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	metres		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	Relevant aspects of unit incorporated into MARN5001A Maintain seaworthiness of a vessel	E
TDMMB4707A	Perform routine remedial, preventative and survey deck maintenance on a vessel of less than 80 metres	Unit deleted	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	N
TDMMB4807A	Manage the operations and maintenance on vessels limited by tonnage or near coastal operations	MARD5002A Manage operations and maintenance on vessels limited by tonnage or near coastal operations	Content revised to reflect current work requirements  Unit code revised	E
<b>C      Manoeuvre Vessel</b>				
TDMMC107B	Manoeuvre and handle a vessel of 500 gross tonnage or more under all conditions	Unit deleted	Relevant aspects of unit incorporated into MARK6001A Manoeuvre a vessel 500 gross tonnage or more	N
TDMMC207B	Operate remote controls of propulsion plant and engineering systems	Unit deleted	Relevant aspects of unit incorporated into MARK6001A Manoeuvre a vessel 500 gross tonnage or more	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMC307B	Manoeuvre and handle the vessel in normal conditions	Unit deleted	Relevant aspects of unit incorporated into MARK5001A Perform basic vessel manoeuvres AND MARK6001A Manoeuvre a vessel 500 gross tonnage or more	N
TDMMC407B	Manoeuvre the vessel and operate small power plants within limits of responsibility of a Master 3	Unit deleted	Relevant aspects of unit incorporated into MARK5001A Perform basic vessel manoeuvres	N
TDMMC507B	Manoeuvre a vessel within limits of responsibility of a Master 4	Unit deleted	Relevant aspects of unit incorporated into MARK4001A Manoeuvre a vessel up to 80 metres	E
TDMMC607B	Manage a propulsion unit using the appropriate engine systems and support services	Unit deleted	Relevant aspects of unit incorporated into MARC4001A Manage a propulsion unit using appropriate engine systems and support services	E
TDMMC707C	Apply seamanship skills and techniques when operating a small vessel within limits of responsibility of a Coxswain	Unit deleted	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	N
TDMMC807B	Manoeuvre a vessel within the limits of responsibility of a Master 5	Unit deleted	Relevant aspects of unit incorporated into MARK3001A Manoeuvre a vessel up to 24 metres within near	E

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			coastal waters	
TDMMC907C	Manoeuvre a domestic vessel within the limits of responsibility of a Coxswain	Unit deleted	Relevant aspects of unit incorporated into MARK2001A Handle a vessel up to 12 metres	N
TDMMC1007C	Steer a domestic vessel under the direction of the master or officer in charge of the watch	Unit deleted	Relevant aspects of unit incorporated into MARK3002A Steer a vessel under direction of the Master	E
<b>D Load Handling</b>				
TDTD197B	Shift materials safely using manual handling methods	Unit updated	Superseded by TLID1001A Shift materials safely using manual handling methods	E
<b>E Communication</b>				
TDMME207B	Communicate using standard marine vocabulary	Unit deleted	Relevant aspects of unit incorporated into MARO5003A Transmit and receive information by visual signalling	N
TDMME307B	Transmit and receive information by visual signalling	MARO5003A Transmit and receive information by visual signalling	Content revised to reflect current work requirements Unit code revised	E
TDMME507B	Transmit and receive information by marine radio or telephone	Unit deleted	Relevant aspects of unit incorporated into MARO5002A Transmit and receive information by the Global Maritime Distress and Safety System	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMME707B	Use English in written and oral form to perform engineering duties	Unit deleted	Relevant aspects of unit incorporated into MARE5001A Communicate effectively when performing engineering duties	E
TDMME807C	Transmit and receive information by GMDSS subsystems and equipment	MARO5002A Transmit and receive information by the Global Maritime Distress and Safety System	Content revised to reflect current work requirements Unit code revised	E
TDMME907A	Communicate during shore-based mooring and untying operations	MARE1001A Communicate during shore-based mooring and untying operations	Content revised to reflect current work requirements Unit code revised	E
TDMME1007A	Transmit and receive information by marine VHF radio or telephone	Unit deleted	Appropriate additional requirements stated in the preamble to relevant qualifications	N
TDMME1107A	Contribute to effective communications and teamwork on a coastal vessel	Unit deleted	Relevant aspects of unit incorporated into MARG4001A Manage a small crew	E
<b>F Operational Quality and Safety</b>				
TDMMF107B	Assist in search and rescue operations	Unit deleted	Relevant aspects of unit incorporated into MARF6001A Coordinate search and rescue operations	E

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMF307B	Manage business and legal requirements on a vessel	Unit deleted	Relevant aspects of unit incorporated into MARD6001A Manage legal requirements of a vessel	E
TDMMF407B	Maintain the operational condition of lifesaving, firefighting and other safety systems	Unit deleted	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	N
TDMMF507C	Develop emergency and damage control plans and handle emergency situations on board a vessel	Unit deleted	Relevant aspects of unit incorporated into MARF6003A Manage safety and security of vessel crew and passengers	N
TDMMF607B	Organise and manage the provision of medical care on board a vessel	Unit deleted	Relevant aspects of unit incorporated into MARF6002A Manage provision of medical care on board a vessel	N
TDMMF1007B	Provide elementary first aid	Unit deleted	Unit replaced with HLTF311A Apply first aid	E
TDMMF1107B	Survive at sea in the event of vessel abandonment	Unit deleted	Relevant aspects of unit incorporated into MARF1001A Apply basic survival skills in the event of vessel abandonment AND MARF1006A Survive at	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			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	NA
TDMMF1507B	Plan and implement special safety, maintenance and emergency procedures for chemical tankers	Unit deleted	Unit to be developed under continuous improvement process	NA
TDMMF1607B	Plan and implement special safety, maintenance and emergency procedures for oil tankers	Unit deleted	Unit to be developed under continuous improvement process	NA
TDMMF1807B	Apply medical first aid on board a vessel	Unit deleted	Relevant aspects of unit incorporated into MARF6002A Manage provision of medical care on board a vessel	N
TDMMF1907B	Operate survival craft and other lifesaving appliances	MARF3004A Operate survival craft and other lifesaving appliances	Content revised to reflect current work requirements Unit code revised	E
TDMMF2107B	Control safe access to and on vessel	MARF5001A Control safe access to and on vessel	Content revised to reflect current work requirements Unit code revised	E
TDMMF2207B	Maintain safety of engine equipment, systems and services on vessels of unlimited	Unit deleted	Relevant aspects of unit incorporated into MARL6023A Demonstrate advanced	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	propulsion power		knowledge of ship operation and maintenance	
TDMMF2307B	Operate emergency equipment and apply emergency procedures	MARF3003A Operate emergency equipment and apply emergency procedures	Content revised to reflect current work requirements  Unit code revised	E
TDMMF2407B	Maintain safety of engine equipment, systems and services on vessels over 750 kW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6010A Demonstrate basic knowledge of ship operation and maintenance	N
TDMMF2507B	Ensure safe working practices	Unit deleted	Relevant aspects of unit incorporated into MARL6023A Demonstrate advanced knowledge of ship operation and maintenance	N
TDMMF2607B	Establish watchkeeping arrangements and procedures	Unit deleted	Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more	N
TDMMF2707B	Prevent, control and fight fires on board a small vessel	Unit deleted	Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components AND MARF1002A Follow	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			procedures to minimise and fight fires on board a vessel	
TDMMF2907B	Maintain a safe navigational watch on a coastal voyage	Unit deleted	Relevant aspects of unit incorporated into MARO5001A Maintain a safe navigational watch	N
TDMMF3007B	Maintain a safe navigational watch	MARO5001A Maintain a safe navigational watch	Content revised to reflect current work requirements Unit code revised	E
TDMMF3107B	Maintain a safe engineering watch	Unit deleted	Relevant aspects of unit incorporated into MARL5011A Demonstrate basic knowledge of ships and ship routines	N
TDMMF3207C	Apply domestic regulations and industry practices when operating a small coastal vessel	Unit deleted	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	N
TDMMF3307B	Execute watchkeeping arrangements and procedures on a small vessel	Unit deleted	Relevant aspects of unit incorporated into MARO5001A Maintain a safe navigational watch	N
TDMMF3507B	Contribute to maintaining a safe watch	Unit deleted	Relevant aspects of unit incorporated into MARO3001A	N



<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			Contribute to monitoring and controlling a safe engine watch AND MARO3002A Contribute to monitoring and controlling a safe navigational watch	
TDMMF3807B	Establish engine room watchkeeping procedures on vessels of less than 3,000 kW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL5011A Demonstrate basic knowledge of ships and ship routines	N
TDMMF3907B	Maintain running log within the limits of responsibility of a Marine Engine Driver Grade 3	Unit deleted	Relevant aspects of unit incorporated into MARC2001A Complete engine room tasks	N
TDMMF4007B	Carry out basic operational engineering calculations	Unit deleted	Relevant aspects of unit incorporated into MARC2001A Complete engine room tasks	N
TDMMF4107B	Carry out engineering calculations related to maintenance and operations	Unit deleted	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	N
TDMMF4307B	Carry out fast rescue craft (FRC) operations	Unit deleted	Unit to be developed under continuous improvement process	NA
TDMMF4407B	Apply safety regulations on roll-on roll-off passenger	Unit deleted	Unit to be developed under continuous	NA

TDM07 Maritime Training Package Version 1.0		MAR13 Maritime Training Package Version 1.0	Comments	E/N
	vessels		improvement process	
TDMMF4707B	Contribute to maintaining a safe watch on a domestic vessel	Unit deleted	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	N
TDMMF5407A	Observe safety and emergency procedures on a coastal vessel	Unit deleted	Relevant aspects of unit incorporated into MARF1005A Meet work health and safety requirements	E
TDMMF5507A	Fight and extinguish fires on board a coastal vessel	Unit deleted	Relevant aspects of unit incorporated into MARF1002A Follow procedures to minimise and fight fires on board a vessel	N
TDMMF5607A	Observe personal safety and social responsibilities	MARF3002A Observe personal safety and social responsibility	Content revised to reflect current work requirements Unit code and revised	E
TDMMF5707A	Assist in safe operations and emergency procedures on a coastal vessel	Unit deleted	Relevant aspects of unit incorporated into MARN1001A Apply general purpose hand skills aboard a vessel	N
TDMMF5807A	Adapt to basic industry and regulatory requirements for tanker operations	Unit deleted	Relevant aspects of unit incorporated into MARA3001A Contribute to safe cargo operations on liquefied	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			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	Relevant aspects of unit incorporated into MARF3007A Work safely in confined spaces on a vessel	E
TDMMF6007A	Follow OHS and emergency procedures during shore-based mooring operations	Unit deleted	Relevant aspects of unit incorporated into MARF1004A Follow work health and safety, and emergency procedures during shore-based mooring operations	E
TDMMF6107A	Manage marine fire fighting and prevention activities on board a vessel	Unit deleted	Relevant aspects of unit incorporated into MARF4001A Manage firefighting and fire prevention activities on board a vessel	E
TDMMF6207A	Prevent, control and fight fires on board an ocean-going vessel	Unit deleted	Relevant aspects of unit incorporated into MARF3005A Prevent and fight fires on board a vessel	E
<b>G Teamwork</b>				
TDTG197B	Work effectively with others	Unit deleted	Unit replaced with BSBWOR203B Work effectively with others	E
<b>H Navigation</b>				

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMH107B	Plan a voyage and conduct navigation	Unit deleted	Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more	N
TDMMH207B	Determine position of the vessel and the accuracy of the resultant position	Unit deleted	Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more	N
TDMMH307B	Manage safe navigation through the use of radar and other navigational aids	Unit deleted	Relevant aspects of unit incorporated into MARH5004A Use bridge equipment to determine vessel position	N
TDMMH507B	Use radar and other bridge equipment to maintain safe navigation	Unit deleted	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	N
TDMMH607B	Plan and conduct a coastal passage and determine position within limits of responsibility of a Master 4	Unit deleted	Relevant aspects of unit incorporated into MARH3003A Plan and navigate a passage for a vessel up to 80 metres	N
TDMMH707B	Apply weather information when navigating a small	Unit deleted	Relevant aspects of unit incorporated into MARH4001A Forecast	E

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	vessel within limits of responsibility of a Master 4		weather and oceanographic conditions	
TDMMH807B	Plan and navigate an offshore passage within limits of responsibility of a Master 5	Unit deleted	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	N
TDMMH907B	Forecast weather and oceanographic conditions	Unit deleted	Relevant aspects of unit incorporated into MARH6001A Forecast weather and oceanographic conditions to plan a safe passage	E
TDMMH1007B	Navigate a high speed vessel	Unit deleted	Unit to be developed under continuous improvement process	NA
TDMMH1107B	Use radar and other electronic navigational aids to maintain safe navigation within limits of responsibility of a Master 5	Unit deleted	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	N
TDMMH1207B	Plan and navigate a short voyage within inshore limits	Unit deleted	Relevant aspects of unit incorporated into MARH2001A Plan and navigate a passage for a vessel up to 12 metres	E
TDMMH1307B	Apply weather information when navigating a small	Unit deleted	Relevant aspects of unit incorporated into MARH3003A Plan and	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	vessel within limits of responsibility of a Master 5		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	Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage	N
TDMMH1507A	Measure and observe weather conditions and interpret and apply to watchkeeping	Unit deleted	Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage	N
TDMMH1607A	Determine position of the vessel	Unit deleted	Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage	N
TDMMH1707A	Apply command navigation procedures on vessels limited by tonnage or near coastal operations	MARH5001A Apply command navigation procedures on vessels limited by tonnage or near coastal operations	Content revised to reflect current work requirements  Unit code revised	E
TDMMH1807A	Apply command navigation procedures on vessels (unlimited)	Unit deleted	Relevant aspects of unit incorporated into MARH6002A Manage the navigation of a vessel 500 gross tonnage or more	N
TDMMH1907A	Plan a passage	Unit deleted	Relevant aspects of unit incorporated into MARH5002A Plan and conduct a passage	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMH2007A	Use radar and other wheelhouse equipment to maintain safe navigation within the limits of responsibility of a Master 4	Unit deleted	Relevant aspects of unit incorporated into MARH3004A Use wheelhouse equipment for safe navigation	N
<b>L Human Resources</b>				
TDMML307B	Establish and maintain a harmonious workplace environment	Unit deleted	Relevant aspects of unit incorporated into MARG5001A Provide leadership to crew	E
TDMML407A	Manage administration of the vessel and its personnel	Unit deleted	Relevant aspects of unit incorporated into MARG6001A Manage a vessel and its crew	E
TDMML507A	Manage business and administration on vessels limited by tonnage or near coastal operations	MARD5001A Manage business and administration on vessels limited by tonnage or near coastal operations	Content revised to reflect current work requirements Unit code revised	E
<b>O Security</b>				
TDMMO107A	Follow maritime security procedures	Unit deleted	Relevant aspects of unit incorporated into MARF1003A Follow vessel security procedures	E
TDMMO207A	Carry out ship security officer functions	Unit deleted	Unit to be developed under continuous improvement process	NA
<b>R Carry Out Operations on Equipment and Systems</b>				
TDMMR107B	Operate and maintain steering gear	Unit deleted	Relevant aspects of unit incorporated into	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	arrangements		MARB3004A Perform routine maintenance on a vessel up to 24 metres	
TDMMR207B	Use and maintain deck equipment and machinery	Unit deleted	Relevant aspects of unit incorporated into MAR2004A Operate deck machinery	N
TDMMR307B	Operate fuel, fresh and sea water, bilge and fire pumping systems installed in a vessel	Unit deleted	Relevant aspects of unit incorporated into MARB3004A Perform routine maintenance on a vessel up to 24 metres	N
TDMMR407B	Operate electrical machinery and electronic control equipment on vessels of unlimited propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6021A Demonstrate advanced knowledge of marine electrical systems	N
TDMMR507B	Manage fuel, bilge and ballast operations procedures on vessels of unlimited propulsion power	Unit deleted	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	N
TDMMR607B	Manage the operation, monitoring and evaluation of the performance of engines on vessels of unlimited propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems	N



<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMR707B	Plan and schedule operations on vessels of unlimited propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems	N
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	Relevant aspects of unit incorporated into MARL6020A Demonstrate advanced knowledge of marine diesel engines and systems	N
TDMMR907B	Operate alternators, generators and control systems to supply shipboard electrical power	Unit deleted	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	N
TDMMR1007B	Operate pumping systems and associated control systems	Unit deleted	Relevant aspects of unit incorporated into MARL5006A Demonstrate basic knowledge of marine auxiliary machinery and systems	N
TDMMR1107B	Operate main and auxiliary machinery and associated control systems	Unit deleted	Relevant aspects of unit incorporated into MARL5006A Demonstrate basic knowledge of marine auxiliary machinery and	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			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	Relevant aspects of unit incorporated into MARL6001A Apply intermediate principles of marine electrotechnology AND MARL6015A Demonstrate intermediate knowledge of marine electrical systems	N
TDMMR1407B	Manage fuel, bilge and ballast operations procedures on vessels over 750 kW propulsion power	Unit deleted	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	N
TDMMR1507B	Operate, monitor and evaluate engine performance on vessels over 750 kW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6014A Demonstrate intermediate knowledge of marine diesel engines and systems	N
TDMMR1607B	Plan and schedule operations on vessels over 750 kW	Unit deleted	Relevant aspects of unit incorporated into MARL6010A	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	propulsion power		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	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	N
TDMMR1807B	Operate deck machinery installed on a small vessel of less than 750 KW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARB3004A Perform routine maintenance on a vessel up to 24 metres	N
TDMMR1907B	Safely handle and stow explosive and flammable materials	Unit deleted	Relevant aspects of unit incorporated into MARB4007A Undertake maintenance of machinery, machinery systems and structural components	N
TDMMR2107B	Operate and maintain engines, machinery and auxiliary power sources on vessels of less than 3,000 kW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARB5002A Maintain and repair shipboard machinery and equipment AND MARL5008A Demonstrate basic knowledge of marine diesel engines and	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			systems	
TDMMR2207B	Operate and maintain boiler systems	Unit deleted	Relevant aspects of unit incorporated into MARL5010A Demonstrate basic knowledge of marine steam turbines and main boilers	N
TDMMR2307B	Operate and maintain batteries, starter motors and power distribution systems	Unit deleted	Relevant aspects of unit incorporated into MARC2003A Operate and maintain extra low and low voltage electrical systems and equipment	N
TDMMR2407B	Operate and maintain internal combustion engines and propulsion transmission systems	Unit deleted	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	N
TDMMR2507B	Operate and maintain auxiliary machinery systems, including steering gear and refrigeration systems	Unit deleted	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	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMR2607B	Operate, test and maintain marine electrical and control equipment	Unit deleted	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	N
TDMMR2707B	Operate and maintain marine internal combustion engines within the limits of responsibility of a Marine Engine Driver Grade 2	Unit deleted	Relevant aspects of unit incorporated into MARC3005A Operate and monitor marine internal combustion engines, propulsion plant and auxiliary systems	E
TDMMR2807B	Operate and maintain auxiliary systems on vessels within limits of responsibility of a Marine Engine Driver Grade 2	Unit deleted	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	N
TDMMR2907B	Operate and maintain marine low and medium voltage electrical systems	Unit deleted	Relevant aspects of unit incorporated into MARC3007A Operate electrical systems	E
TDMMR3007B	Operate and carry out basic service checks on small vessel marine	Unit deleted	Relevant aspects of unit incorporated into MARC2005A Operate	E

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	propulsion systems		inboard and outboard motors	
TDMMR3107B	Operate and carry out basic servicing on auxiliary systems	Unit deleted	Relevant aspects of unit incorporated into MARB2002A Service marine internal combustion engines, and propulsion and auxiliary systems	N
TDMMR3207B	Operate and carry out basic routine servicing of marine extra low and low voltage electrical systems	Unit deleted	Relevant aspects of unit incorporated into MARC2003A Operate and maintain extra low and low voltage electrical systems	N
TDMMR3307B	Perform rigging and lifting operations on board a vessel	Unit deleted	Relevant aspects of unit incorporated into MARN3002A Use seamanship skills on board a vessel	N
TDMMR3407B	Operate deck machinery	Unit deleted	Relevant aspects of unit incorporated into MARC3006A Operate deck machinery, cargo handling gear and equipment on a vessel	E
TDMMR4307B	Assist in mooring and anchor handling activities	Unit deleted	Relevant aspects of unit incorporated into MARN3002A Use seamanship skills on board a vessel	N
TDMMR4407B	Assist in completion of deck operations and maintenance documentation	Unit deleted	Relevant aspects of unit incorporated into MARN3002A Use seamanship skills on board a vessel	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMR4507B	Provide support in completing cargo and bunkering operations	Unit deleted	Relevant aspects of unit incorporated into MARC3008A Operate engine equipment and associated propulsion plant AND MARN3002A Use seamanship skills on board a vessel	N
TDMMR4607B	Assist in basic welding, brazing, cutting and machinery operations on a vessel	Unit deleted	Relevant aspects of unit incorporated into MARB3002A Perform routine engine maintenance on a vessel	N
TDMMR4707B	Use and care for hand and power tools on a vessel	Unit deleted	Relevant aspects of unit incorporated into MARB3002A Perform routine engine maintenance on a vessel	N
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	NA
TDMMR5107B	Carry out windlass operations on a rig	Unit deleted	Unit to be developed under continuous improvement process	NA
TDMMR5207B	Carry out dogging and cargo handling operations at a rig	Unit deleted	Unit to be developed under continuous improvement process	NA
TDMMR5307B	Carry out anchor handling, towage and supply duties at a rig	Unit deleted	Unit to be developed under continuous improvement process	NA
TDMMR5407B	Carry out refueling and fuel transfer operations	Unit deleted	Relevant aspects of unit incorporated into	E

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
			MARB4003A Manage refuelling	
TDMMR5507B	Perform seamanship, rigging and lifting operations on board a small domestic vessel	Unit deleted	Relevant aspects of unit incorporated into MARN3001A Perform seamanship operations on board a vessel up to 24 metres	N
TDMMR5607A	Carry out shore-based mooring and untying operations	MARC1001A Carry out shore-based mooring and untying operations	Content revised to reflect current work requirements  Unit code revised	E
TDMMR5707A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels of unlimited propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6022A Demonstrate advanced knowledge of marine steam turbines and main boilers	E
TDMMR5807A	Manage the operation, monitoring and evaluation of the performance of steam propulsion plant on vessels over 750 kW propulsion power	Unit deleted	Relevant aspects of unit incorporated into MARL6016A Demonstrate intermediate knowledge of marine steam turbines and main boilers	E
TDMMR5907A	Operate steam propulsion plant and associated systems on steam vessels	Unit deleted	Relevant aspects of unit incorporated into MARL5010A Demonstrate basic knowledge of marine steam turbines and main boilers	N
TDMMR6007A	Assist in routine deck operations within limits	Unit deleted	Relevant aspects of unit incorporated into	N



<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
	of responsibility of a General Purpose Hand		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	Relevant aspects of unit incorporated into MARB2002A Service marine internal combustion engines, and propulsion and auxiliary systems	N
TDMMR6207A	Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	MARB4001A Carry out basic welding, brazing, cutting and machining operations on a coastal vessel	Content revised to reflect current work requirements  Unit code revised	E
<b>U      Environment</b>				
TDMMU107B	Monitor compliance with legislative requirements and measures to ensure protection of the environment	Unit deleted	Relevant aspects of unit incorporated into MARJ6001A Manage compliance with environmental management legislation	E
TDMMU407B	Ensure compliance with pollution prevention measures	Unit deleted	Relevant aspects of unit incorporated into MARJ2001A Follow environmental work practices AND MARJ5001A Ensure compliance with environmental management legislation	N

<b>TDM07 Maritime Training Package Version 1.0</b>		<b>MAR13 Maritime Training Package Version 1.0</b>	<b>Comments</b>	<b>E/N</b>
TDMMU507B	Ensure compliance with environmental considerations in a small domestic vessel	Unit deleted	Relevant aspects of unit incorporated into MARJ2001A Follow environmental work practices AND MARJ3001A Monitor environmental management on a vessel	N

## Overview of Training Packages

### What is a Training Package?

A Training Package is an integrated set of nationally endorsed competency standards, assessment guidelines and Australian Qualifications Framework (AQF) qualifications for a specific industry, industry sector or enterprise.

Each Training Package:

- provides a consistent and reliable set of components for training, recognising and assessing people's skills, and may also have optional support materials;
- enables nationally recognised qualifications to be awarded through direct assessment of workplace competencies;
- encourages the development and delivery of flexible training which suits individual and industry requirements; and
- encourages learning and assessment in a work-related environment which leads to verifiable workplace outcomes.

### How do Training Packages fit within the National Skills Framework?

The National Skills Framework applies nationally, is endorsed by the Ministerial Council for Vocational and Technical Education, and comprises the Australian Quality Training Framework 2010 (AQTF 2010), and Training Packages endorsed by the National Skills Standards Council (NSSC).

### How are Training Packages developed?

Training Packages are developed by Industry Skills Councils or enterprises to meet the identified training needs of specific industries or industry sectors. To gain national endorsement of Training Packages, developers must provide evidence of extensive research, consultation and support within the industry area or enterprise.

### **How do Training Packages encourage flexibility?**

Training Packages describe the skills and knowledge needed to perform effectively in the workplace without prescribing how people should be trained.

Training Packages acknowledge that people can achieve vocational competency in many ways by emphasising what the learner can do, not how or where they learned to do it. For example, some experienced workers might be able to demonstrate competency against the units of competency, and even gain a qualification, without completing a formal training program.

With Training Packages, assessment and training may be conducted at the workplace, off-the-job, at a training organisation, during regular work, or through work experience, work placement, work simulation or any combination of these.

### **Who can deliver and assess using Training Packages?**

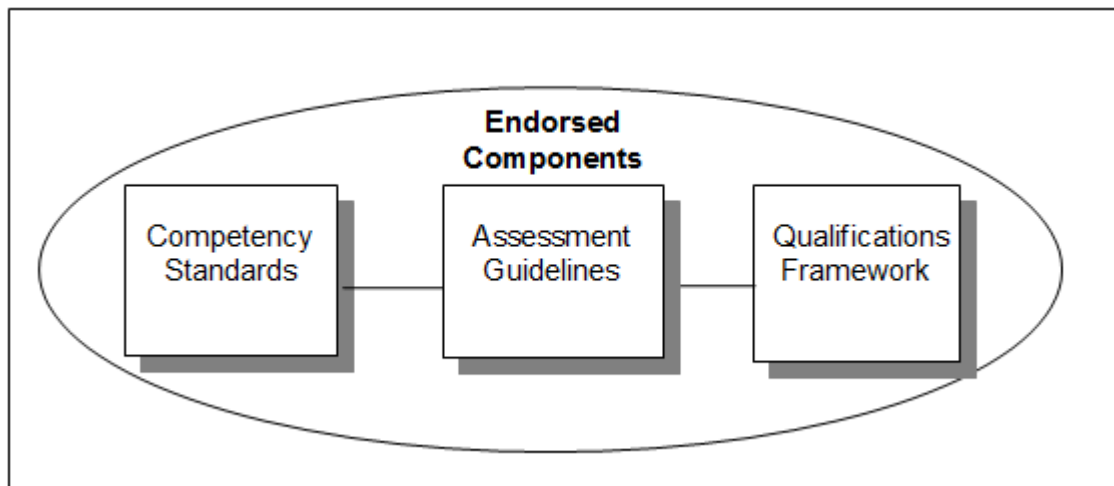
Training and assessment using Training Packages must be conducted by a Registered Training Organisation (RTO) that has the qualifications or specific units of competency on its scope of registration, or that works in partnership with another RTO, as specified in the AQTF 2010.

### **Training Package Components**

Training Packages are made up of mandatory components endorsed by the NQC, and optional support materials.

### **Training Package Endorsed Components**

The nationally endorsed components include the Competency Standards, Assessment Guidelines and Qualifications Framework. These form the basis of training and assessment in the Training Package and, as such, they must be used.



### **Competency Standards**

Each unit of competency identifies a discrete workplace requirement and includes the knowledge and skills that underpin competency as well as language, literacy and numeracy; and occupational health and safety requirements. The units of competency must be adhered to in training and assessment to ensure consistency of outcomes.

### **Assessment Guidelines**

The Assessment Guidelines provide an industry framework to ensure all assessments meet industry needs and nationally agreed standards as expressed in the Training Package and the AQTF 2010. The Assessment Guidelines must be followed to ensure the integrity of assessment leading to nationally recognised qualifications.

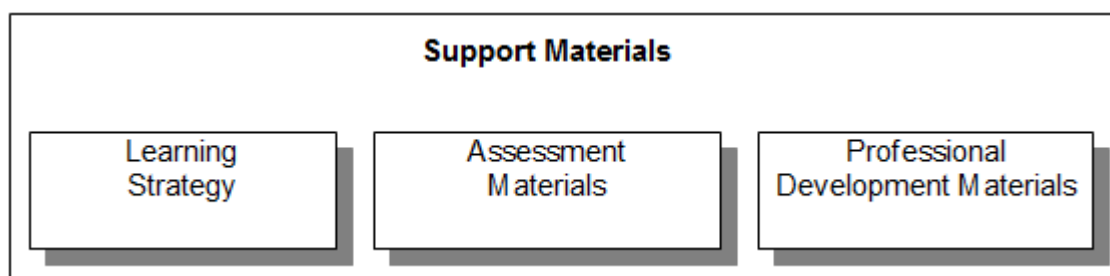
### **Qualifications Framework**

Each Training Package provides details of those units of competency that must be achieved to award AQF qualifications. The rules around which units of competency can be combined to make up a valid AQF qualification in the Training Package are referred to as the 'packaging rules'. The packaging rules must be followed to ensure the integrity of nationally recognised qualifications issued.

### **Training Package Support Materials**

The endorsed components of Training Packages are complemented and supported by optional support materials that provide for choice in the design of training and assessment to meet the needs of industry and learners.

Training Package support materials can relate to single or multiple units of competency, an industry sector, a qualification or the whole Training Package. They tend to fall into one or more of the categories illustrated below.



Training Package support materials are produced by a range of stakeholders such as RTOs, individual trainers and assessors, private and commercial developers and Government agencies.

## Training Package, Qualification and Unit of Competency Codes

There are agreed conventions for the national codes used for Training Packages and their components. Always use the correct codes, exactly as they appear in the Training Package, and with the code always before the title.

### Training Package Codes

Each Training Package has a unique five-character national code assigned when the Training Package is endorsed, for example XYZ08. The first three characters are letters identifying the Training Package industry coverage and the last two characters are numbers identifying the year of endorsement.

### Qualification Codes

Within each Training Package, each qualification has a unique eight-character code, for example XYD10108. Qualification codes are developed as follows:

- the first three letters identify the Training Package;
- the first number identifies the qualification level (noting that, in the qualification titles themselves, arabic numbers are not used);
- the next two numbers identify the position in the sequence of the qualification at that level; and
- the last two numbers identify the year in which the qualification was endorsed. (Where qualifications are added after the initial Training Package endorsement, the last two numbers may differ from other Training Package qualifications as they identify the year in which those particular qualifications were endorsed.)

### Unit of Competency Codes

Within each Training Package, each unit of competency has a unique code. Unit of competency codes are assigned when the Training Package is endorsed, or when new units of competency are added to an existing endorsed Training Package. Unit codes are developed as follows:

- a typical code is made up of 12 characters, normally a mixture of uppercase letters and numbers, as in MARF3002A
- the first three characters signify the Training Package – (MAR Maritime Training Package) – in the above example and up to eight characters, relating to an industry sector, function or skill area, follow;
- the last character is always a letter and identifies the unit of competency version. An ‘A’ at the end of the code indicates that this is the original unit of competency. ‘B’, or another incremented version identifier means that minor changes have been made. Typically this would mean that wording has changed in the range statement or evidence guide, providing clearer intent; and
- where changes are made that alter the outcome, a new code is assigned and the title is changed.

### **Training Package, Qualification and Unit of Competency Titles**

There are agreed conventions for titling Training Packages and their components. Always use the correct titles, exactly as they appear in the Training Package, and with the code always placed before the title.

#### **Training Package Titles**

The title of each endorsed Training Package is unique and relates the Training Packages broad industry coverage.

#### **Qualification Titles**

The title of each endorsed Training Package qualification is unique. Qualification titles use the following sequence:

- first, the qualification is identified as either Certificate I, Certificate II, Certificate III, Certificate IV, Diploma or Advanced Diploma;
- this is followed by the words ‘in’ for Certificates I to IV, and ‘of’ for Diploma and Advanced Diploma;
- then, the industry descriptor, for example Telecommunications; and
- then, if applicable, the occupational or functional stream in brackets, for example (Computer Systems).

For example:

MAR30113 Certificate III in Maritime Operations (Integrated Rating)

#### **Unit of Competency Titles**

Each unit of competency title is unique. Unit of competency titles describe the competency outcome concisely, and are written in sentence case.

For example:

MARF3002A Observe personal safety and social responsibility

## **Introduction to the MAR13 Maritime Training Package**

The Australian Government’s shipping reforms will introduce new structural and regulatory changes and are aimed at revitalising Australia’s maritime industry.

Following the signing of the Intergovernmental Agreement on Commercial Vessel Safety Reform by the commonwealth, states and territories in August 2011, the Australian Maritime Safety Authority (AMSA) will become the National Regulator for commercial vessel safety regulation in 2013 delivering a national system for the first time.

With the commencement of the national system, AMSA will also assume the maintenance and development of the National Standards for Commercial Vessels (NSCV), which is currently undertaken by the National Maritime Safety Committee (NMSC).

The MAR13 Maritime Training Package qualifications, Skill Sets and units of competency:

- ensure close alignment with the regulatory requirements of national, state and territory marine authorities
- accommodate the multiple job roles, enterprise requirements and changing technological nature of the maritime industry.

In the MAR13 Maritime Training Package, qualifications and Skill Sets are directly aligned with the educational requirements specified by marine authorities for regulated occupations within:

- coastal operations as described and defined in Part D of the National Standard for Commercial Vessels (NSCV)
- ocean-going operations falling within the regulatory jurisdiction of the Australian Maritime Safety Authority (AMSA) as defined in Marine Orders under the Australian Navigation Act 2012.

Critical issues that combine to create challenges for the sector are most notably the capacity to maintain safety, efficiency, international competitiveness and appropriate environmental standards.

The MAR13 Maritime Training Package also provides qualifications beyond basic mandatory safety requirements to fulfil the diverse competency requirements of occupations in ancillary and support areas associated with maritime operations.

Developments in the MAR13 Maritime Training Package reflect the skills in demand in the maritime industry, such as:

- General Purpose Hand
- Integrated Rating
- Deck Officer
- Marine Engineer
- Ship's Master.

While the nature of the work in the maritime industry is not conducive to flexible working arrangements such as part-time work, the industry is exploring other opportunities to grow the workforce, for example by:

- developing clear pathways within the industry (such as onshore roles) and from other related industries (such as fishing)
- encouraging greater participation by under-represented groups, such as women and Indigenous workers.

**Figure 1 Examples of areas of maritime operations covered by the Maritime Training Package**



### Coverage of the MAR13 Maritime Training Package

The coverage of the MAR13 Maritime Training Package includes:

Regulated commercial maritime occupations on commercial vessels engaged in coastal operations as described in Part D of the National Standard for Commercial



Vessels (NSCV). This includes:

- General Purpose Hand
- Coxswain Grades 1, 2 and 3
- Marine Engine Driver Grade 3
- Marine Engine Driver Grade 2
- 
- Marine Engine Driver Grade 1
- Master < 24 m
- Master Class < 35 m and Mate < 80 m Near Coastal
- Engineer Class 3
- Master Class less than 80 metres
- Marine Engine Driver (Steam)

Regulated commercial maritime occupations on commercial vessels engaged in ocean-going operations falling within the jurisdiction of the Australian Maritime Safety Authority (AMSA) and described in the Marine Orders Part 3: Seagoing Qualifications under the Australian Navigation Act 2012. This includes:

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

Persons employed on the various types of vessels in unregulated occupations who may not be specifically operating and maintaining the vessel and therefore are not included in the regulated occupations above but who may need to fulfil the basic competency requirements specified by marine authorities for maritime safety, survival, environmental protection, emergency procedures, etc.

## **How the TDM07 Maritime Training Package was reviewed**

To review the TDM07 Maritime Training Package, sector specific steering committees were established with representation from various aspects of the maritime industry and associated job roles.

Broadly the sectors were:

- Engineering Standards of Training, Certification & Watchkeeping for Seafarers
- Deck Standards of Training, Certification & Watchkeeping for Seafarers
- Deck Near Coastal
- Engineering Near Coastal
- Ratings
- Marine Surveyors.

Steering committees comprised representatives from appropriate industry operators and their peak bodies, Regulators at both State and Federal levels, major RTOs, and Union representatives where applicable.

Steering Committee members were required to establish the job roles applicable to their sectors and identify the competencies that would be required. The job roles were then aligned to regulatory requirements and a structure for each qualification proposed. Once a structure had been agreed to, units of competency were developed and discussed with steering committee members. Discussions were conducted via face-to-face meetings and email exchanges.

Drafts of agreed material were then placed on the TLISC website for comment.

The broad processes for the review of the TDM07 Maritime Training Package included:

### **Desktop research drawing from a range of information sources, including:**

- TDM07 Maritime Training Package Version 1.0
- maritime regulations, certification requirements and codes of practice
- trends and developments in the organisation of the Maritime Industry
- international trends and developments in maritime training
- Guidelines for Training Package Development
- related developments in higher education and schools
- related Training Packages (e.g. tourism, hospitality, business services, engineering, health, public sector)
- existing approved courses for maritime occupations.

### **Industry and VET consultation processes, including:**

- consultative forums of key stakeholders at key stages of the project
- individual consultative meetings as required
- maintenance of an issues register
- meetings with the equity adviser appointed to the review
- meetings with representatives of the various marine regulatory authorities
- development of schedules of agreed changes

- reference groups of industry advisers
- posting of draft new and revised units of competency on the Transport & Logistics Industry Skills Council website for review and comment by stakeholders.

### **Validation and editing of final products:**

- Editing to ensure the material conformed to the Training Package Development Handbook requirements
- Checks to ensure that the new MAR13 Training Packages meets the requirements in the Guidelines for Training Package Development
- Proofreading of the units of competency and the four volumes that comprise the new MAR13 Maritime Training Package.

### **Relationship between the Qualifications in the MAR13 Maritime Training Package and Marine Regulatory Requirements at the National and State/Territory Levels**

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. This includes the following specific marine occupations:

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. This includes the following specific marine occupations:

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 various marine authorities are provided in the table below.

<b>Organisation</b>	<b>Website</b>	<b>Telephone</b>
Australian Maritime Safety Authority (AMSA)	<a href="http://www.amsa.gov.au">http://www.amsa.gov.au</a>	(02) 6279 5000
National Marine Safety Committee (NMSC)	<a href="http://www.nmsc.gov.au">http://www.nmsc.gov.au</a>	(02) 9247 2124
NSW Maritime	<a href="http://www.maritime.nsw.gov.au">http://www.maritime.nsw.gov.au</a>	(02) 9563 8511
Marine Safety Victoria (MSV)	<a href="http://www.marinesafety.vic.gov.au">http://www.marinesafety.vic.gov.au</a>	(03) 9655 3399

Maritime Safety Queensland (MSQ)	<a href="http://www.msq.qld.gov.au">http://www.msq.qld.gov.au</a>	(07) 3120 7462
Marine and Safety Tasmania (MAST)	<a href="http://www.mast.tas.gov.au">http://www.mast.tas.gov.au</a>	(03) 6233 8801
WA Department for Planning and Infrastructure (Marine Safety Section)	<a href="http://www.dpi.wa.gov.au/imarine">http://www.dpi.wa.gov.au/imarine</a>	(08) 9264 7777
NT Department of Planning and Infrastructure (Marine Safety Section)	<a href="http://www.ipe.nt.gov.au/whatwedo/marinesafety/index.html">http://www.ipe.nt.gov.au/whatwedo/marinesafety/index.html</a>	(08) 8999 5285
Transport SA (Marine Safety Section)	<a href="http://www.marine.transport.sa.gov.au/index.asp">http://www.marine.transport.sa.gov.au/index.asp</a>	(08) 8343 2222

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

- National Standard for Commercial Vessels (NSCV) Part D ‘Crew Competencies’ (downloadable from the NMSC website)
- Marine Orders Part 3 ‘Seagoing Qualifications’ under the Navigation Act 2012 (downloadable from the AMSA website).
- 

## Qualifications Framework

### The Australian Qualifications Framework

#### What is the Australian Qualifications Framework?

A brief overview of the Australian Qualifications Framework (AQF) follows. For a full explanation of the AQF, see the AQF Implementation Handbook.

[http://www.aqf.edu.au/Portals/0/Documents/Handbook/AQF\\_Handbook\\_07.pdf](http://www.aqf.edu.au/Portals/0/Documents/Handbook/AQF_Handbook_07.pdf)

The AQF provides a comprehensive, nationally consistent framework for all qualifications in post-compulsory education and training in Australia. In the vocational education and training (VET) sector it assists national consistency for all trainees, learners, employers and providers by enabling national recognition of qualifications and Statements of Attainment.

Training Package qualifications in the VET sector must comply with the titles and guidelines of the AQF. Endorsed Training Packages provide a unique title for each AQF qualification which must always be reproduced accurately.

#### Qualifications

Training Packages can incorporate the following eight AQF qualifications.

- Certificate I in ...
- Certificate II in ...

- Certificate III in ...
- Certificate IV in ...
- Diploma of ...
- Advanced Diploma of ...
- Vocational Graduate Certificate of ...
- Vocational Graduate Diploma of ...

On completion of the requirements defined in the Training Package, a Registered Training Organisation (RTO) may issue a nationally recognised AQF qualification. Issuance of AQF qualifications must comply with the advice provided in the AQF Implementation Handbook and the AQTF 2010 Essential Standards for Initial and Continuing Registration.

### **Statement of Attainment**

A Statement of Attainment is issued by a Registered Training Organisation when an individual has completed one or more units of competency from nationally recognised qualification(s)/courses(s). Issuance of Statements of Attainment must comply with the advice provided in the current AQF Implementation Handbook and the AQTF 2010 Essential Standards for Initial and Continuing Registration.

Under the AQTF 2010, RTOs must recognise the achievement of competencies as recorded on a qualification or Statement of Attainment issued by other RTOs. Given this, recognised competencies can progressively build towards a full AQF qualification.

### **AQF Guidelines and Learning Outcomes**

The AQF Implementation Handbook provides a comprehensive guideline for each AQF qualification. A summary of the learning outcome characteristics and their distinguishing features for each VET related AQF qualification is provided below.

#### **Certificate I**

##### *Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and skills would prepare a person to perform a defined range of activities most of which may be routine and predictable.

Applications may include a variety of employment related skills including preparatory access and participation skills, broad-based induction skills and/or specific workplace skills. They may also include participation in a team or work group.

##### *Distinguishing Features of Learning Outcomes*

- Do the competencies enable an individual with this qualification to:
- demonstrate knowledge by recall in a narrow range of areas;
- demonstrate basic practical skills, such as the use of relevant tools;
- perform a sequence of routine tasks given clear direction; and
- receive and pass on messages/information.

**Certificate II***Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and skills would prepare a person to perform in a range of varied activities or knowledge application where there is a clearly defined range of contexts in which the choice of actions required is usually clear and there is limited complexity in the range of operations to be applied.

Performance of a prescribed range of functions involving known routines and procedures and some accountability for the quality of outcomes.

Applications may include some complex or non-routine activities involving individual responsibility or autonomy and/or collaboration with others as part of a group or team.

*Distinguishing Features of Learning Outcomes*

Do the competencies enable an individual with this qualification to:

- demonstrate basic operational knowledge in a moderate range of areas;
- apply a defined range of skills;
- apply known solutions to a limited range of predictable problems;
- perform a range of tasks where choice between a limited range of options is required;
- assess and record information from varied sources; and
- take limited responsibility for own outputs in work and learning.

**Certificate III***Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and competencies would cover selecting, adapting and transferring skills and knowledge to new environments and providing technical advice and some leadership in resolution of specified problems. This would be applied across a range of roles in a variety of contexts with some complexity in the extent and choice of options available.

Performance of a defined range of skilled operations, usually within a range of broader related activities involving known routines, methods and procedures, where some discretion and judgement is required in the selection of equipment, services or contingency measures and within known time constraints.

Applications may involve some responsibility for others. Participation in teams including group or team coordination may be involved.

*Distinguishing Features of Learning Outcomes*

Do the competencies enable an individual with this qualification to:

- demonstrate some relevant theoretical knowledge;
- apply a range of well-developed skills;
- apply known solutions to a variety of predictable problems;

- perform processes that require a range of well-developed skills where some discretion and judgement is required;
- interpret available information, using discretion and judgement;
- take responsibility for own outputs in work and learning; and
- take limited responsibility for the output of others.

## **Certificate IV**

### *Characteristics of Learning Outcomes*

Breadth, depth and complexity of knowledge and competencies would cover a broad range of varied activities or application in a wider variety of contexts most of which are complex and non-routine. Leadership and guidance are involved when organising activities of self and others as well as contributing to technical solutions of a non-routine or contingency nature.

Performance of a broad range of skilled applications, including the requirement to evaluate and analyse current practices, develop new criteria and procedures for performing current practices and provision of some leadership and guidance to others in the application and planning of the skills.

Applications involve responsibility for, and limited organisation of, others.

### *Distinguishing Features of Learning Outcomes*

Do the competencies enable an individual with this qualification to:

- demonstrate understanding of a broad knowledge base incorporating some theoretical concepts;
- apply solutions to a defined range of unpredictable problems;
- identify and apply skill and knowledge areas to a wide variety of contexts, with depth in some areas;
- identify, analyse and evaluate information from a variety of sources;
- take responsibility for own outputs in relation to specified quality standards; and
- take limited responsibility for the quantity and quality of the output of others.

## **Diploma**

### *Characteristics of Learning Outcomes*

Breadth, depth and complexity covering planning and initiation of alternative approaches to skills or knowledge applications across a broad range of technical and/or management requirements, evaluation and coordination.

The self-directed application of knowledge and skills, with substantial depth in some areas where judgement is required in planning and selecting appropriate equipment, services and

techniques for self and others.

Applications involve participation in development of strategic initiatives as well as personal responsibility and autonomy in performing complex technical operations or organising others. It may include participation in teams, including teams concerned with planning and evaluation functions. Group or team coordination may be involved.

The degree of emphasis on breadth as against depth of knowledge and skills may vary between qualifications granted at this level.

#### *Distinguishing Features of Learning Outcomes*

Do the competencies or learning outcomes enable an individual with this qualification to:

- demonstrate understanding of a broad knowledge base incorporating theoretical concepts, with substantial depth in some areas;
- analyse and plan approaches to technical problems or management requirements;
- transfer and apply theoretical concepts and/or technical or creative skills to a range of situations;
- evaluate information, using it to forecast for planning or research purposes;
- take responsibility for own outputs in relation to broad quantity and quality parameters; and
- take some responsibility for the achievement of group outcomes.

## **Advanced Diploma**

#### *Characteristics of Learning Outcomes*

Breadth, depth and complexity involving analysis, design, planning, execution and evaluation across a range of technical and/or management functions including development of new criteria or applications or knowledge or procedures.

The application of a significant range of fundamental principles and complex techniques across a wide and often unpredictable variety of contexts in relation to either varied or highly specific functions. Contribution to the development of a broad plan, budget or strategy is involved and accountability and responsibility for self and others in achieving the outcomes is involved.

Applications involve significant judgement in planning, design, technical or leadership/guidance functions related to products, services, operations or procedures.

The degree of emphasis on breadth as against depth of knowledge and skills may vary between qualifications granted at this level.

#### *Distinguishing Features of Learning Outcomes*

Do the competencies or learning outcomes enable an individual with this qualification to:

- demonstrate understanding of specialised knowledge with depth in some areas;
- analyse, diagnose, design and execute judgements across a broad range of technical or management functions;



- generate ideas through the analysis of information and concepts at an abstract level;
- demonstrate a command of wide-ranging, highly specialised technical, creative or conceptual skills;
- demonstrate accountability for personal outputs within broad parameters; and
- demonstrate accountability for personal and group outcomes within broad parameters.

### **Vocational Graduate Certificate**

#### *Characteristics of competencies or learning outcomes*

- The self-directed development and achievement of broad and specialised areas of knowledge and skills, building on prior knowledge and skills.
- Substantial breadth and complexity involving the initiation, analysis, design, planning, execution and evaluation of technical and management functions in highly varied and highly specialised contexts.
- Applications involve making significant, high-level, independent judgements in major broad or planning, design, operational, technical and management functions in highly varied and specialised contexts. They may include responsibility and broad-ranging accountability for the structure, management and output of the work or functions of others.
- The degree of emphasis on breadth, as opposed to depth, of knowledge and skills may vary between qualifications granted at this level.

#### *Distinguishing features of learning outcomes*

- Demonstrate the self-directed development and achievement of broad and specialised areas of knowledge and skills, building on prior knowledge and skills.
- Initiate, analyse, design, plan, execute and evaluate major broad or technical and management functions in highly varied and highly specialised contexts.
- Generate and evaluate ideas through the analysis of information and concepts at an abstract level.
- Demonstrate a command of wide-ranging, highly specialised technical, creative or conceptual skills in complex contexts.
- Demonstrate responsibility and broad-ranging accountability for the structure, management and output of the work or functions of others.

### **Vocational Graduate Diploma**

#### *Characteristics of competencies or learning outcomes*

- The self-directed development and achievement of broad and specialised areas of knowledge and skills, building on prior knowledge and skills.

- Substantial breadth, depth and complexity involving the initiation, analysis, design, planning, execution and evaluation of major functions, both broad and highly specialised, in highly varied and highly specialised contexts.
- Further specialisation within a systematic and coherent body of knowledge.
- Applications involve making high-level, fully independent, complex judgements in broad planning, design, operational, technical and management functions in highly varied and highly specialised contexts. They may include full responsibility and accountability for all aspects of work and functions of others, including planning, budgeting and strategy development.
- The degree of emphasis on breadth, as opposed to depth, of knowledge and skills may vary between qualifications granted at this level.

*Distinguishing features of learning outcomes*

- Demonstrate the self-directed development and achievement of broad and highly specialised areas of knowledge and skills, building on prior knowledge and skills.
- Initiate, analyse, design, plan, execute and evaluate major functions, both broad and within highly varied and highly specialised contexts.
- Generate and evaluate complex ideas through the analysis of information and concepts at an abstract level.
- Demonstrate an expert command of wide-ranging, highly specialised, technical, creative or conceptual skills in complex and highly specialised or varied contexts.
- Demonstrate full responsibility and accountability for personal outputs.
- Demonstrate full responsibility and accountability for all aspects of the work or functions of others, including planning, budgeting and strategy.

## Overview of MAR13 Maritime Training Package Qualifications and Packaging Rules

### Overview

The qualifications described in the MAR13 Maritime Training Package fall into three categories:

- Qualifications and related units of competency for regulated maritime commercial occupations on commercial vessels engaged in coastal operations as described in the National Standard for Commercial Vessels (NSCV).
- Qualifications and related units of competency for regulated maritime commercial occupations falling within the jurisdiction of the Australian Maritime Safety Authority (AMSA) and the Marine Orders Part 3: Seagoing Qualifications under the Australian Navigation Act 2012.
- Qualifications and related units of competency not specifically aligned with regulated maritime occupations but that may lead to regulatory occupations.

Consequently, MAR13 Maritime Training Package qualifications use a core only model to reflect the regulatory nature of the work.

For qualifications related to vessels involved in coastal operations, these requirements were based on National Standards for Commercial Vessels (Part D) as well as other regulatory requirements of individual State and Territory marine authorities.

For qualifications related to larger vessels engaged in ocean-going operations, the requirements were based on information contained in Marine Orders Part 3: Seagoing Qualifications, information on educational requirements provided by AMSA and the sections of the STCW Code (issued by the International Maritime Organisation [IMO]) dealing with crew competencies involving safety, survival, environmental protection, emergency procedures, etc.

## Skill Sets

### Definition

Skill Sets are defined as single units of competency, or combinations of units of competency from an endorsed Training Package, which link to a licence or regulatory requirement, or defined industry need.

### Wording on Statements of Attainment

Skill Sets are a way of publicly identifying logical groupings of units of competency which meet an identified need or industry outcome. Skill Sets are not qualifications.

Where skill sets are identified in a Training Package, the Statement of Attainment can set out the competencies a person has achieved in a way that is consistent and clear for employers and others. This is done by including the wording ‘these competencies meet [insert skill set title or identified industry area] need’ on the Statement of Attainment. This wording applies only to skill sets that are formally identified as such in the endorsed Training Package. See the 2010 edition of the AQF Implementation Handbook for advice on wording on Statements of Attainment. [http://www.aqf.edu.au/Portals/0/Documents/Handbook/AQF\\_Handbook\\_07.pdf](http://www.aqf.edu.au/Portals/0/Documents/Handbook/AQF_Handbook_07.pdf)

### Skill Sets in this Training Package

This section provides information on Skill Sets within this Training Package, with the following important disclaimer: Readers should ensure that they have also read the part of the Training Package that outlines licensing and regulatory requirements.

MARSS00002 Safety Training Certification Skill Set
MARSS00003 Shipboard Safety Skill Set
MARSS00001 Coxswain Grade 1 and Grade 2 Skill Set *NOTE: Entry requirement for this Skill Set is the MAR20113 Certificate II in Maritime Operations (Coxswain)

# Assessment Guidelines

## Introduction

These Assessment Guidelines provide the endorsed framework for assessment of units of competency in this Training Package. They are designed to ensure that assessment is consistent with the Australian Quality Training Framework (AQTF) Essential Standards for Initial and Continuing Registration. Assessments against the units of competency in this Training Package must be carried out in accordance with these Assessment Guidelines.

## Assessment System Overview

This section provides an overview of the requirements for assessment when using this Training Package, including a summary of the AQTF requirements; licensing and registration requirements; and assessment pathways.

Quality assessment underpins the credibility of the vocational education and training sector. The Assessment Guidelines of a Training Package are an important tool in supporting quality assessment.

Assessment within the National Skills Framework is the process of collecting evidence and making judgements about whether competency has been achieved to confirm whether an individual can perform to the standards expected in the workplace, as expressed in the relevant endorsed unit of competency.

Assessment must be carried out in accordance with the:

- benchmarks for assessment
- specific industry requirements
- principles of assessment
- rules of evidence
- assessment requirements set out in the AQTF.

## Benchmarks for Assessment

The endorsed units of competency in this Training Package are the benchmarks for assessment. As such, they provide the basis for nationally recognised Australian Qualifications Framework (AQF) qualifications and Statements of Attainment issued by Registered Training Organisations (RTOs).

## Principles of Assessment

All assessments carried out by RTOs are required to demonstrate compliance with the principles of assessment:

- validity
- reliability
- flexibility
- fairness
- sufficiency.

These principles must be addressed in the:

- design, establishment and management of the assessment system for this Training Package
- development of assessment tools
- the conduct of assessment.

### *Validity*

Assessment is valid when the process is sound and assesses what it claims to assess. Validity requires that:

- (a) assessment against the units of competency must cover the broad range of skills and knowledge that are essential to competent performance
- (b) assessment of knowledge and skills must be integrated with their practical application
- (c) judgement of competence must be based on sufficient evidence (that is, evidence gathered on a number of occasions and in a range of contexts using different assessment methods). The specific evidence requirements of each unit of competency provide advice on sufficiency

### *Reliability*

Reliability refers to the degree to which evidence presented for assessment is consistently interpreted and results in consistent assessment outcomes. Reliability requires the assessor to have the required competencies in assessment and relevant vocational competencies (or to assess in conjunction with someone who has the vocational competencies). It can only be achieved when assessors share a common interpretation of the assessment requirements of the unit(s) being assessed.

### *Flexibility*

To be flexible, assessment should reflect the candidate's needs; provide for recognition of competencies no matter how, where or when they have been acquired; draw on a range of methods appropriate to the context, competency and the candidate; and support continuous competency development.

### *Fairness*

Fairness in assessment requires consideration of the individual candidate's needs and characteristics, and any reasonable adjustments that need to be applied to take account of them. It requires clear communication between the assessor and the candidate to ensure that the candidate is fully informed about, understands and is able to participate in, the assessment process, and agrees that the process is appropriate. It also includes an opportunity for the person being assessed to challenge the result of the assessment and to be reassessed if necessary.

### *Sufficiency*

Sufficiency relates to the quality and quantity of evidence assessed. It requires collection of enough appropriate evidence to ensure that all aspects of competency have been satisfied and that competency can be demonstrated repeatedly. Supplementary sources of evidence may be necessary. The specific evidence requirements of each unit of competency provide advice on sufficiency. Sufficiency is also one of the rules of evidence.

## Rules of Evidence

The rules of evidence guide the collection of evidence that address the principles of validity and reliability, guiding the collection of evidence to ensure that it is valid, sufficient, current and authentic.

### *Valid*

Valid evidence must relate directly to the requirements of the unit of competency. In ensuring evidence is valid, assessors must ensure that the evidence collected supports demonstration of the outcomes and performance requirements of the unit of competency together with the knowledge and skills necessary for competent performance. Valid evidence must encapsulate the breadth and depth of the unit of competency, which will necessitate using a number of different assessment methods.

### *Sufficient*

Sufficiency relates to the quality and quantity of evidence assessed. It requires collection of enough appropriate evidence to ensure that all aspects of competency have been satisfied and that competency can be demonstrated repeatedly. Supplementary sources of evidence may be necessary. The specific evidence requirements of each unit of competency provide advice on sufficiency.

### *Current*

In assessment, currency relates to the age of the evidence presented by a candidate to demonstrate that they are still competent. Competency requires demonstration of current performance, so the evidence collected must be from either the present or the very recent past.

### *Authentic*

To accept evidence as authentic, an assessor must be assured that the evidence presented for assessment is the candidate's own work.

## Assessment Requirements of the Australian Quality Training Framework

Assessment leading to nationally recognised AQF qualifications and Statements of Attainment in the vocational education and training sector must meet the requirements of the AQTF as expressed in the AQTF 2010 Essential Standards for Registration.

The AQTF 2010 Essential Standards for Initial and Continuing Registration can be downloaded from <[www.training.com.au](http://www.training.com.au)>.

The following points summarise the assessment requirements.

### Registration of Training Organisations

Assessment must be conducted by, or on behalf of, an RTO formally registered by a State or Territory Registering Body in accordance with the AQTF. The RTO must have the specific units of competency and/or AQF qualifications on its scope of registration.

### Quality Training and Assessment

Each RTO must provide quality training and assessment across all its operations. See the AQTF 2010 Essential Standards for Initial and Continuing Registration, Standard 1.

## **Assessor Competency Requirements**

Each person involved in training and assessment must be competent for the functions they perform. See the AQTF 2010 Essential Standards for Initial and Continuing Registration, Standard 1 for assessor (and trainer) competency requirements. See also the AQTF 2010 Users' Guide to the Essential Standards for Registration – Appendix 2.

## **Assessment Requirements**

The RTOs assessments, including RPL, must meet the requirements of the relevant endorsed Training Package. See the AQTF 2010 Essential Standards for Initial and Continuing Registration.

## **Assessment Strategies**

Each RTO must have strategies for training and assessment that meet the requirements of the relevant Training Package or accredited course and are developed in consultation with industry stakeholders. See the AQTF 2010 Essential Standards for Initial and Continuing Registration.

## **National Recognition**

Each RTO must recognise the AQF qualifications and Statements of Attainment issued by any other RTO. See the AQTF 2010 Essential Standards for Initial and Continuing Registration.

## **Access and Equity and Client Outcomes**

Each RTO must adhere to the principles of access and equity and maximise outcomes for its clients. See the AQTF 2010 Essential Standards for Initial and Continuing Registration.

## **Monitoring Assessments**

Training and/or assessment provided on behalf of the RTO must be monitored to ensure that it is in accordance with all aspects of the AQTF 2010 Essential Standards for Initial and Continuing Registration.

## **Recording Assessment Outcomes**

Each RTO must manage records to ensure their accuracy and integrity. See the AQTF 2010 Essential Standards for Initial and Continuing Registration.

## **Issuing AQF qualifications and Statements of Attainment**

Each RTO must issue AQF qualifications and Statements of Attainment that meet the requirements of the current AQF Implementation Handbook and the endorsed Training Packages within the scope of its registration. An AQF qualification is issued once the full requirements for a qualification, as specified in the nationally endorsed Training Package are met. A Statement of Attainment is issued when an individual has completed one or more units of competency from nationally recognised qualification(s)/courses(s). See the AQTF and the edition of the AQF Implementation Handbook—available on the AQF Council website <[www.aqf.edu.au](http://www.aqf.edu.au)>

## **Licensing/Registration Requirements**

This section provides information on licensing/registration requirements for this Training Package, with the following important disclaimer.

Licensing and registration requirements that apply to specific industries, and vocational education and training, vary between each State and Territory, and can regularly change. The developers of this Training Package consider that the licensing/registration requirements described in this section apply to RTOs, assessors or candidates with respect to this Training Package. While reasonable care has been taken in its preparation, the developers of this Training Package and the Department cannot guarantee that the list is definitive or accurate at the time of reading; the information in this section is provided in good faith on that basis.

Contact the relevant State or Territory Department(s) to check if the licensing/registration requirements described below still apply, and to check if there are any others with which you must comply. For further information contact [www.tlisc.org.au](http://www.tlisc.org.au)

### **Certification and approval requirements: AMSA and marine authorities**

Users of the MAR13 Maritime Training Package should check with AMSA or the relevant marine authorities to confirm the current requirements for issuing maritime certificates of competency and approving RTOs to train and assess people preparing for such certification.

For further information contact:

Transport & Logistics Industry Skills Council

Website: <http://www.tlisc.org.au>

Tel: 03 9604 7200

### **Requirements for RTOs**

Selected units of competency and qualifications in this Training Package provide the basis for a range of certification and provider approval arrangements. To satisfy these certification and approval arrangements, RTOs should contact AMSA or the relevant State or Territory marine authority to check and confirm requirements. Contact details are listed below.

### **Requirements for Assessors**

In order to conduct assessment for the units and qualifications related to regulated maritime occupations, assessors must meet the requirements determined by AMSA or the relevant State or Territory marine authorities in addition to the AQTF requirements. Assessors should carry out assessment under the direction of an RTO with approval from AMSA and the relevant State and Territory marine authorities. Contact details are listed below.

Organisation	Website	Telephone
Australian Maritime Safety Authority (AMSA)	<a href="http://www.amsa.gov.au/">http://www.amsa.gov.au/</a>	(02) 6279 5000
NSW Maritime	<a href="http://www.maritime.nsw.gov.au/">http://www.maritime.nsw.gov.au/</a>	(02) 9563 8511
Marine Safety Victoria (MSV)	<a href="http://www.marinesafety.vic.gov.au/">http://www.marinesafety.vic.gov.au/</a>	(03) 9655 3399



Maritime Safety Queensland (MSQ)	<a href="http://www.msq.qld.gov.au/">http://www.msq.qld.gov.au/</a>	(07) 3120 7462
Marine and Safety Tasmania (MAST)	<a href="http://www.mast.tas.gov.au/">http://www.mast.tas.gov.au/</a>	(03) 6233 8801
WA Department for Planning and Infrastructure (Marine Safety Section)	<a href="http://www.dpi.wa.gov.au/imagine/">http://www.dpi.wa.gov.au/imagine/</a>	(08) 9264 7777
NT Department of Planning and Infrastructure (Marine Safety Section)	<a href="http://www.ipe.nt.gov.au/whatwedo/marinesafety/index.html">http://www.ipe.nt.gov.au/whatwedo/marinesafety/index.html</a>	(08) 8999 5285
Transport SA (Marine Safety Section)	<a href="http://www.marine.transport.sa.gov.au/index.asp">http://www.marine.transport.sa.gov.au/index.asp</a>	(08) 8343 2222

## Requirements for Candidates

Individuals being assessed under statutory licensing and industry registration systems must comply with training and experience requirements additional to the minimum requirements identified in this Training Package, as outlined by AMSA or the relevant State or Territory marine authority. Important reference documents include:

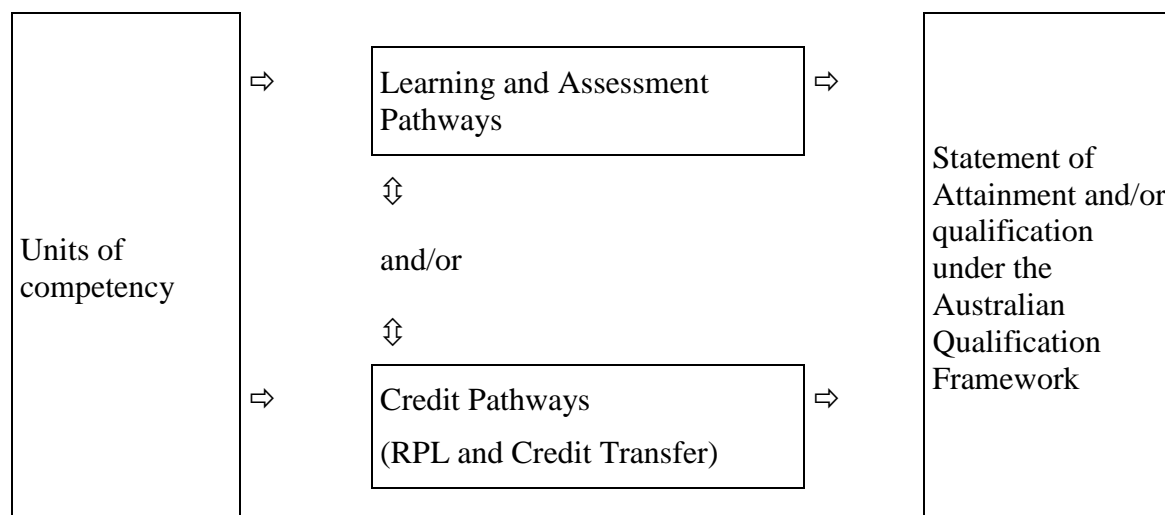
- For regulated occupations involved in ocean-going operations: Marine Orders – Part 3: Seagoing Qualifications under the Australian Navigation Act 2012, downloadable from the AMSA website <<http://www.amsa.gov.au>>.
- For regulated occupations involved in coastal operations: Part D of the National Standard for Commercial Vessels, downloadable from the National Marine Safety Committee (NMSC) website <<http://www.nmsc.gov.au>>.

## Pathways

The competencies in this Training Package may be attained in a number of ways including through:

- formal or informal education and training
- experiences in the workplace
- general life experience, and/or
- any combination of the above.

Assessment under this Training Package leading to an AQF qualification or Statement of Attainment may follow a learning and assessment pathway, or a recognition pathway, or a combination of the two as illustrated in the following diagram.



Each of these assessment pathways leads to full recognition of competencies held – the critical issue is that the candidate is competent, not how the competency was acquired.

Assessment, by any pathway, must comply with the assessment requirements set out in the Assessment Guidelines of the Training Package, the AQTF and, where relevant, the Australian Qualifications Framework.

### Learning and Assessment Pathways

Usually, learning and assessment are integrated, with evidence being collected and feedback provided to the candidate at anytime throughout the learning and assessment process.

Learning and assessment pathways may include structured programs in a variety of contexts using a range of strategies to meet different learner needs. Structured learning and assessment programs could be: group-based, work-based, project-based, self-paced, action learning-based; conducted by distance or e-learning; and/or involve practice and experience in the workplace.

Learning and assessment pathways to suit Australian Apprenticeships have a mix of formal structured training and structured workplace experience with formative assessment activities through which candidates can acquire and demonstrate skills and knowledge from the relevant units of competency.

### Credit Pathways

Credit is the value assigned for the recognition of equivalence in content between different types of learning and/or qualifications which reduces the volume of learning required to achieve a qualification.

Credit arrangements must be offered by all RTOs that offer Training Package qualifications. Each RTO must have a systematic institutional approach with clear, accessible and transparent policies and procedures.

Competencies already held by individuals can be formally assessed against the units of competency in this Training Package, and should be recognised regardless of how, when or where they were acquired, provided that the learning is relevant to the unit of competency outcomes.

## **Recognition of Prior Learning**

Recognition of Prior Learning (RPL) is an assessment process which determines the credit outcomes of an individual application for credit.

The availability of Recognition of Prior Learning (RPL) provides all potential learners with access to credit opportunities.

The recognition of prior learning pathway is appropriate for candidates who have previously attained skills and knowledge and who, when enrolling in qualifications, seek to shorten the duration of their training and either continue or commence working. This may include the following groups of people:

- existing workers;
- individuals with overseas qualifications;
- recent migrants with established work histories;
- people returning to the workplace; and
- people with disabilities or injuries requiring a change in career.

As with all assessment, RPL assessment should be undertaken by academic or teaching staff with expertise in the subject, content of skills area, as well as knowledge of and expertise in RPL assessment policies and procedures.

Assessment methods used for RPL should provide a range of ways for individuals to demonstrate that they have met the required outcomes and can be granted credit. These might include:

- questioning (oral or written)
- consideration of a portfolio and review of contents
- consideration of third party reports and/or other documentation such as documentation such as articles, reports, project material, papers, testimonials or other products prepared by the RPL applicant that relate to the learning outcomes of the relevant qualification component
- mapping of learning outcomes from prior formal or non-formal learning to the relevant qualification components
- observation of performance, and
- participation in structured assessment activities the individual would normally be required to undertake if they were enrolled in the qualification component/s.

In a Recognition of Prior Learning (RPL) pathway, the candidate provides current, quality evidence of their competency against the relevant unit of competency. This process may be directed by the candidate and verified by the assessor. Where the outcomes of this process indicate that the candidate is competent, structured training is not required. The RPL requirements of the AQTF must be met.

As with all assessment, the assessor must be confident that the evidence indicates that the candidate is currently competent against the endorsed unit of competency. This evidence may take a variety of forms and might include certification, references from past employers, testimonials from clients, work samples and/or observation of the candidate. The onus is on candidates to provide sufficient evidence to satisfy assessors that they currently hold the relevant competencies. In judging evidence, the assessor must ensure that the evidence of prior learning is:

- authentic (the candidate's own work);
- valid (directly related to the current version of the relevant endorsed unit of competency);
- reliable (shows that the candidate consistently meets the endorsed unit of competency);
- current (reflects the candidate's current capacity to perform the aspect of the work covered by the endorsed unit of competency); and
- sufficient (covers the full range of elements in the relevant unit of competency and addresses the four dimensions of competency, namely task skills, task management skills, contingency management skills, and job/role environment skills).

## **Credit Transfer**

Credit transfer is a process which provides learners with agreed and consistent credit outcomes based on equivalences in content between matched qualifications.

This process involves education institutions:

- mapping, comparing and evaluating the extent to which the defined learning outcomes and assessment requirements of the individual components of one qualification are equivalent to the learning outcomes and assessment requirements of the individual components of another qualification
- making an educational judgment of the credit outcomes to be assigned between the matched components of the two qualifications
- setting out the agreed credit outcomes in a documented arrangement or agreement, and
- publicising the arrangement/agreement and credit available.

## **Combination of Pathways**

Credit may be awarded on the basis of a combination of credit transfer plus an individual RPL assessment for additional learning. Once credit has been awarded on the basis of RPL, subsequent credit transfer based on these learning outcomes should not include revisiting the RPL assessment but should be based on credit transfer or articulation or other arrangements between providers.

Where candidates for assessment have gained competencies through work and life experience and gaps in their competence are identified, or where they require training in new areas, a combination of pathways may be appropriate.

In such situations, the candidate may undertake an initial assessment to determine their current competency. Once current competency is identified, a structured learning and assessment program ensures that the candidate acquires the required additional competencies identified as gaps.

## Assessor Requirements

This section identifies the specific requirements on the vocational competence and experience for assessors, to ensure that they meet the needs of industry and their obligations under AQTF, and clarifies how others may contribute to the assessment process where one person alone does not hold all the required competencies.

## Assessor Competencies

The AQTF specifies mandatory competency requirements for assessors. For information, Element 1.4 from the AQTF 2007 Essential Standards for Registration follows:

- 1.4 Training and assessment are conducted by trainers and assessors who:
- have the necessary training and assessment competencies as determined by the National Quality Council or its successors, and
  - have the relevant vocational competencies at least to the level being delivered or assessed, and
  - can demonstrate current industry skills directly relevant to the training/assessment being undertaken, and
  - continue to develop their Vocational Education and Training (VET) knowledge and skills as well as their industry currency and trainer/assessor competence.

\* See AQTF 2010 Users' Guide to the Essential Standards for Registration – Appendix 2

## Designing Assessment Tools

This section provides an overview on the use and development of assessment tools.

### *Use of Assessment Tools*

Assessment tools provide a means of collecting the evidence that assessors use in making judgements about whether candidates have achieved competency.

There is no set format or process for the design, production or development of assessment tools. Assessors may use prepared assessment tools, such as those specifically developed to support this Training Package, or they may develop their own.

### *Using Prepared Assessment Tools*

If using prepared assessment tools, assessors should ensure these relate to the current version of the relevant unit of competency. The current unit of competency can be checked on the National Register <[www.training.gov.au](http://www.training.gov.au)>.

### *Developing Assessment Tools*

When developing their own assessment tools, assessors must ensure that the tools:

- are benchmarked against the relevant unit or units of competency;
- are reviewed as part of the validation of assessment strategies required under the AQTF;
- and

- meet the assessment requirements expressed in the AQTF 2010 Essential Standards for Initial and Continuing Registration.

A key reference for assessors developing assessment tools is TAE10 Training and Education Training Package.

## **Language, Literacy and Numeracy**

The design of assessment tools must reflect the language, literacy and numeracy competencies required for the performance of a task in the workplace and not exceed these expectations.

## **Conducting Assessment**

This section details the mandatory assessment requirements and provides information on equity in assessment including reasonable adjustment.

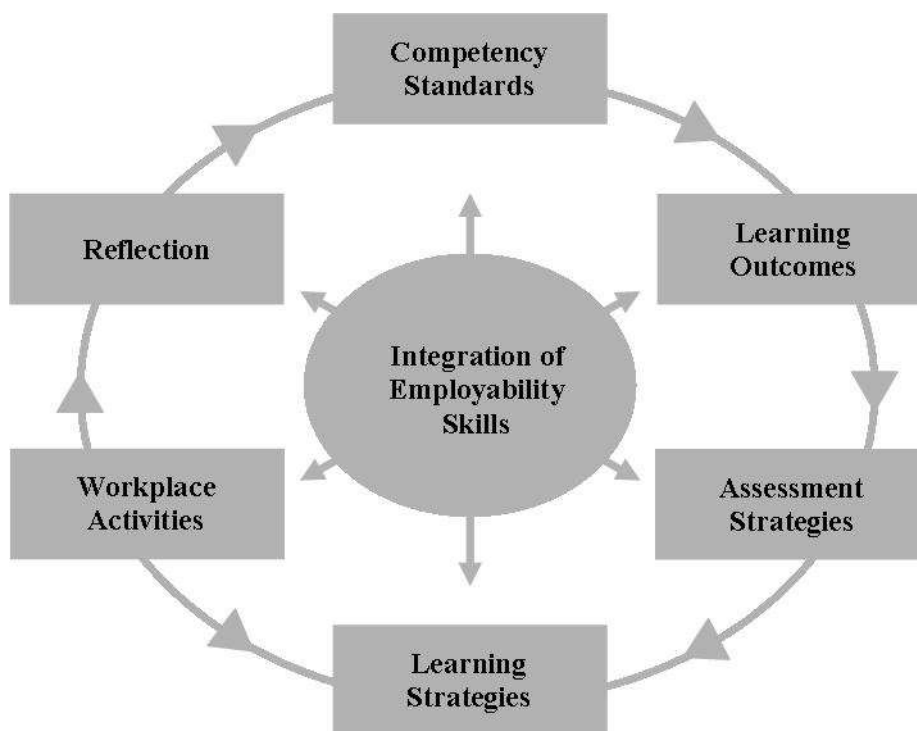
## **Mandatory Assessment Requirements**

Assessments must meet the criteria set out in the AQTF 2010 Essential Standards for Initial and Continuing Registration. For information, the mandatory assessment requirements from Standard 1 from the AQTF 2010 Essential Standards for Initial and Continuing Registration are as follows:

- |   |
|---|
| <p>1.5 Assessment, including Recognition of Prior Learning (RPL):</p> <ul style="list-style-type: none"><li>• meets the requirements of the relevant Training Package or accredited course</li><li>• is conducted in accordance with the principles of assessment and the rules of evidence</li><li>• meets workplace and, where relevant, regulatory requirements</li><li>• is systematically validated.</li></ul> |
|---|

## **Assessment of Employability Skills**

Employability Skills are integral to workplace competency. As such, they must be considered in the design, customisation, delivery and assessment of vocational education and training programs in an integrated and holistic way, as represented diagrammatically below.



Employability Skills are embedded within each unit of competency, and an Employability Skills Summary is available for each qualification. Training providers must use Employability Skills information in order to design valid and reliable training and assessment strategies. This analysis could include:

- reviewing units of competency to locate relevant Employability Skills and determine how they are applied within the unit
- analysing the Employability Skills Summary for the qualification in which the unit or units are packaged to help clarify relevant industry and workplace contexts and the application of Employability Skills at that qualification outcome
- designing training and assessment to address Employability Skills requirements.

The National Skills Standards Council (NSSC) has endorsed a model for assessing and reporting Employability Skills, which contains further suggestions about good practice strategies in teaching, assessing, learning and reporting Employability Skills. The model is available from <<http://www.training.com.au/>>.

The endorsed approach includes learners downloading qualification specific Employability Skills Summaries for Training Package qualifications from an online repository at <<http://employabilityskills.training.com.au>>

For more information on Employability Skills in MAR13 Maritime Training Packages go to the Transport & Logistics ISC website at [www.tlisc.org.au](http://www.tlisc.org.au).

Employability Skills are reported on each qualification using the following statement on the qualification testamur: "A summary of the Employability Skills developed through this qualification can be downloaded from <http://employabilityskills.training.com.au>".

## Access and Equity

An individual's access to the assessment process should not be adversely affected by restrictions placed on the location or context of assessment beyond the requirements specified in this Training Package: training and assessment must be bias-free.

Under the rules for their development, Training Packages must reflect and cater for the increasing diversity of Australia's VET clients and Australia's current and future workforce. The flexibilities offered by Training Packages should enhance opportunities and potential outcomes for all people so that we can all benefit from a wider national skills base and a shared contribution to Australia's economic development and social and cultural life.

## Reasonable Adjustments

It is important that education providers take meaningful, transparent and reasonable steps to consult, consider and implement reasonable adjustments for students with disability.

Under the Disability Standards for Education 2005, education providers must make reasonable adjustments for people with disability to the maximum extent that those adjustments do not cause that provider unjustifiable hardship. While 'reasonable adjustment' and 'unjustifiable hardship' are different concepts and involve different considerations, they both seek to strike a balance between the interests of education providers and the interests of students with and without disability.

An adjustment is any measure or action that a student requires because of their disability, and which has the effect of assisting the student to access and participate in education and training on the same basis as students without a disability. An adjustment is reasonable if it achieves this purpose while taking into account factors such as the nature of the student's disability, the views of the student, the potential effect of the adjustment on the student and others who might be affected, and the costs and benefits of making the adjustment.

An education provider is also entitled to maintain the academic integrity of a course or program and to consider the requirements or components that are inherent or essential to its nature when assessing whether an adjustment is reasonable. There may be more than one adjustment that is reasonable in a given set of circumstances; education providers are required to make adjustments that are reasonable and that do not cause them unjustifiable hardship.

The Training Package Guidelines provides more information on reasonable adjustment, including examples of adjustments. Go to <http://www.innovation.gov.au/tpdh/Pages/home.aspx>

## Further Sources of Information

The section provides a listing of useful contacts and resources to assist assessors in planning, designing, conducting and reviewing of assessments against this Training Package.

### Contacts

Transport & Logistics ISC  
Level 4, 411 Collins St  
Melbourne VIC 3000  
[www.tlisc.org.au](http://www.tlisc.org.au)



(03) 9604 7200

For information on the TAE10 Training and Education Training Package contact:

Innovation & Business Skills Australia

Telephone: (03) 9815 7000

Facsimile: (03) 9815 7001

Email: [virtual@ibsa.org.au](mailto:virtual@ibsa.org.au)

Web: [www.ibsa.org.au](http://www.ibsa.org.au)

## General Resources

AQF Implementation Handbook, Fourth Edition 2007. Australian Qualifications Framework Advisory Board, 2002 <[www.aqf.edu.au](http://www.aqf.edu.au)>

Australian Quality Training Framework (AQTF) and AQTF 2010 Users' Guide to the Essential Standards for Registration –  
<http://www.training.com.au/pages/menuitem5cbe14d51b49dd34b225261017a62dbc.aspx>

For general information and resources go to <http://www.training.com.au/>.

The National Register is an electronic database providing comprehensive information about RTOs, Training Packages and accredited courses - [www.training.gov.au](http://www.training.gov.au).

## Assessment Resources

Registered training organisations (RTOs) are at the forefront of vocational education and training (VET) in Australia. They translate the needs of industry into relevant, quality, client-focussed training and assessment.

RTOs should strive for innovation in VET teaching and learning practices and develop highly flexible approaches to assessment which take cognisance of specific needs of learners, in order to improve delivery and outcomes of training.

Resources can be downloaded free of charge from the TLISC Resources website  
[www.resources.tlisc.org.au](http://www.resources.tlisc.org.au)

# Competency Standards

## What is Competency?

The broad concept of industry competency concerns the ability to perform particular tasks and duties to the standard of performance expected in the workplace. Competency requires the application of specified skills, knowledge and attitudes relevant to effective participation in an industry, industry sector or enterprise.

Competency covers all aspects of workplace performance and involves performing individual tasks; managing a range of different tasks; responding to contingencies or breakdowns; and, dealing with the responsibilities of the workplace, including working with others. Workplace competency requires the ability to apply relevant skills, knowledge and attitudes consistently over time and in the required workplace situations and environments. In line with this concept of competency Training Packages focus on what is expected of a competent individual in the workplace as an outcome of learning, rather than focussing on the learning process itself.

Competency standards in Training Packages are determined by industry to meet identified industry skill needs. Competency standards are made up of a number of units of competency each of which describes a key function or role in a particular job function or occupation. Each unit of competency within a Training Package is linked to one or more AQF qualifications.

### **Contextualisation of units of competency by RTOs**

Registered Training Organisation (RTOs) may contextualise units of competency to reflect local outcomes required. Contextualisation could involve additions or amendments to the unit of competency to suit particular delivery methods, learner profiles, specific enterprise equipment requirements, or to otherwise meet local needs. However, the integrity of the overall intended outcome of the unit of competency must be maintained.

Any contextualisation of units of competency in this endorsed Training Package must be within the bounds of the following advice. In contextualising units of competency, RTOs:

- must not remove or add to the number and content of elements and performance criteria
- may add specific industry terminology to performance criteria where this does not distort or narrow the competency outcomes
- may make amendments and additions to the range statement as long as such changes do not diminish the breadth of application of the competency and reduce its portability, and/or
- may add detail to the evidence guide in areas such as the critical aspects of evidence or resources and infrastructure required where these expand the breadth of the competency but do not limit its use.

### **Components of Units of Competency**

The components of units of competency are summarised below, in the order in which they appear in each unit of competency.

#### **Unit Title**

The unit title is a succinct statement of the outcome of the unit of competency. Each unit of competency title is unique, both within and across Training Packages.

#### **Unit Descriptor**

The unit descriptor broadly communicates the content of the unit of competency and the skill area it addresses. Where units of competency have been contextualised from units of competency from other endorsed Training Packages, summary information is provided. There may also be a brief second paragraph that describes its relationship with other units of competency, and any licensing requirements.

## **Employability Skills**

See reference to Employability Skills in next section of this volume.

## **Pre-requisite Units (optional)**

If there are any units of competency that must be completed before the unit, these will be listed.

## **Application of the Unit**

This sub-section fleshes out the unit of competency's scope, purpose and operation in different contexts, for example, by showing how it applies in the workplace.

## **Competency Field (Optional)**

The competency field either reflects the way the units of competency are categorised in the Training Package or denotes the industry sector, specialisation or function. It is an optional component of the unit of competency.

## **Sector (optional)**

The industry sector is a further categorisation of the competency field and identifies the next classification, for example an elective or supervision field.

## **Elements of Competency**

The elements of competency are the basic building blocks of the unit of competency. They describe in terms of outcomes the significant functions and tasks that make up the competency.

## **Performance Criteria**

The performance criteria specify the required performance in relevant tasks, roles, skills and in the applied knowledge that enables competent performance. They are usually written in passive voice. Critical terms or phrases may be written in bold italics and then defined in range statement, in the order of their appearance in the performance criteria.

## **Required Skills and Knowledge**

The essential skills and knowledge are either identified separately or combined. Knowledge identifies what a person needs to know to perform the work in an informed and effective manner. Skills describe the application of knowledge to situations where understanding is converted into a workplace outcome.

## **Range Statement**

The range statement provides a context for the unit of competency, describing essential operating conditions that may be present with training and assessment, depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts. As applicable, the meanings of key terms used in the performance criteria will also be explained in the range statement.

## **Evidence Guide**

The evidence guide is critical in assessment as it provides information to the Registered Training Organisation (RTO) and assessor about how the described competency may be demonstrated. The evidence guide does this by providing a range of evidence for the assessor to make determinations, and by providing the assessment context. The evidence guide describes:

- conditions under which competency must be assessed including variables such as the assessment environment or necessary equipment
- relationships with the assessment of any other units of competency
- suitable methodologies for conducting assessment including the potential for workplace simulation
- resource implications, for example access to particular equipment, infrastructure or situations
- how consistency in performance can be assessed over time, various contexts and with a range of evidence
- the required underpinning knowledge and skills.

### **Employability Skills in units of competency**

The detail and application of Employability Skills facets will vary according to the job role requirements of each industry. In developing Training Packages, industry stakeholders are consulted to identify appropriate facets of Employability Skills which are incorporated into the relevant units of competency and qualifications.

Employability Skills are not a discrete requirement contained in units of competency (as was the case with Key Competencies). Employability Skills are specifically expressed in the context of the work outcomes described in units of competency and will appear in elements, performance criteria, range statements and evidence guides. As a result, users of Training Packages are required to review the entire unit of competency in order to accurately determine Employability Skills requirements.

### **How Employability Skills relate to the Key Competencies**

The eight nationally agreed Employability Skills now replace the seven Key Competencies in Training Packages. Trainers and assessors who have used Training Packages prior to the introduction of Employability Skills may find the following comparison useful.

<b>Employability Skills</b>	<b>Mayer Key Competencies</b>
Communication	Communicating ideas and information
Teamwork	Working with others and in teams
Problem solving	Solving problems Using mathematical ideas and techniques
Initiative and enterprise	
Planning and organising	Collecting, analysing and organising

	information Planning and organising activities
Self-management	
Learning	
Technology	Using technology

When analysing the above table it is important to consider the relationship and natural overlap of Employability Skills. For example, using technology may involve communication skills and combine the understanding of mathematical concepts.

### Explicitly embedding Employability Skills in units of competency

This Training Package seeks to ensure that industry-endorsed Employability Skills are explicitly embedded in units of competency. The application of each skill and the level of detail included in each part of the unit will vary according to industry requirements and the nature of the unit of competency.

Employability Skills must be both explicit and embedded within units of competency. This means that Employability Skills will be:

- embedded in units of competency as part of the other performance requirements that make up the competency as a whole
- explicitly described within units of competency to enable Training Packages users to identify accurately the performance requirements of each unit with regard to Employability Skills.

This Training Package also seeks to ensure that Employability Skills are well-defined and written into units of competency so that they are apparent, clear and can be delivered and assessed as an essential component of unit work outcomes.

The following table contains examples of embedded Employability Skills for each component of a unit of competency. Please note that in the examples below the bracketed skills are provided only for clarification and will not be present in units of competency within this Training Package.

Unit Component	Example of embedded Employability Skill
Unit Title	Give formal presentations and take part in meetings (communication)
Unit Descriptor	This unit covers the skills and knowledge required to promote the use and implementation of innovative work practices to effect change (initiative and enterprise)
Element	Proactively resolve issues (problem solving)

<b>Performance Criteria</b>	Information is organised in a format suitable for analysis and dissemination in accordance with organisational requirements (planning and organising)
<b>Range Statement</b>	Software applications may include email, internet, word processing, spreadsheet, database or accounting packages (technology)
<b>Required Skills and Knowledge</b>	<p>Modify activities depending on differing workplace contexts, risk situations and environments (learning)</p> <p>Work collaboratively with others during a fire emergency (teamwork)</p> <p>Instructions, procedures and other information relevant the maintenance of vessel and port security (communication)</p>
<b>Evidence Guide</b>	<p>Evidence of having worked constructively with a wide range of community groups and stakeholders to solve problems and adapt or design new solutions to meet identified needs in crime prevention. In particular, evidence must be obtained on the ability to:</p> <ul style="list-style-type: none"> <li>• assess response options to identified crime-prevention needs and determine the optimal action to be implemented</li> <li>• in consultation with relevant others, design an initiative to address identified issues (initiative and enterprise).</li> </ul>

## Employability Skills

### Background to Employability Skills

In May 2005, the approach to incorporate Employability Skills within Training Package qualifications and units of competency was endorsed. As a result, from 2006 Employability Skills will progressively replace Key Competency information in Training Packages.

Employability Skills are also sometimes referred to as generic skills, capabilities or Key Competencies. The Employability Skills discussed here build on the Mayer Committee's Key Competencies, which were developed in 1992 and attempted to describe generic competencies for effective participation in work.

The Business Council of Australia (BCA) and the Australian Chamber of Commerce and Industry (ACCI), produced the Employability Skills for the Future report in 2002 in consultation with other peak employer bodies and with funding provided by the Department of Education, Science and Training (DEST) and the Australian National Training Authority (ANTA). Officially released by Dr Nelson (Minister for Education, Science and Training) on 23 May 2002, copies of the report are available from the DEST website at:

<[http://www.dest.gov.au/archive/ty/publications/employability\\_skills/index.htm](http://www.dest.gov.au/archive/ty/publications/employability_skills/index.htm)>.

### Employability Skills Framework

The report indicated that business and industry now require a broader range of skills than the Mayer Key Competencies Framework and featured an Employability Skills Framework identifying eight Employability Skills:<sup>1</sup>

<sup>1</sup>Personal attributes that contribute to employability were also identified in the report but are not part of the Employability Skills Framework.

- communication
- teamwork
- problem solving
- initiative and enterprise
- planning and organising
- self-management
- learning
- technology.

The report demonstrated how Employability Skills can be further described for particular occupational and industry contexts by sets of facets. The facets listed in the report are the aspects of the Employability Skills that the sample of employers surveyed identified as being important work skills. These facets were seen by employers as being dependent both in their nature and priority on an enterprise's business activity.

### **Employability Skills facets**

The following table contains the Employability Skills facets identified in the report Employability Skills for the Future.

<b>Skill</b>	<b>Facets</b> Aspects of the skill that employers identify as important. The nature and application of these facets will vary depending on industry and job type.
<b>Communication</b> that contributes to productive and harmonious relations across employees and customers	<ul style="list-style-type: none"> <li>• listening and understanding</li> <li>• speaking clearly and directly</li> <li>• writing to the needs of the audience</li> <li>• negotiating responsively</li> <li>• reading independently</li> <li>• empathising</li> <li>• using numeracy effectively</li> <li>• understanding the needs of internal and external customers</li> <li>• persuading effectively</li> <li>• establishing and using networks</li> <li>• being assertive</li> <li>• sharing information</li> </ul>

<b>Skill</b>	<b>Facets</b> Aspects of the skill that employers identify as important. The nature and application of these facets will vary depending on industry and job type.
	<ul style="list-style-type: none"> <li>speaking and writing in languages other than English</li> </ul>
<b>Teamwork</b> that contributes to productive working relationships and outcomes	<ul style="list-style-type: none"> <li>working across different ages irrespective of gender, race, religion or political persuasion</li> <li>working as an individual and as a member of a team</li> <li>knowing how to define a role as part of the team</li> <li>applying teamwork to a range of situations e.g. futures planning and crisis problem solving</li> <li>identifying the strengths of team members</li> <li>coaching and mentoring skills, including giving feedback</li> </ul>
<b>Problem solving</b> that contributes to productive outcomes	<ul style="list-style-type: none"> <li>developing creative, innovative and practical solutions</li> <li>showing independence and initiative in identifying and solving problems</li> <li>solving problems in teams</li> <li>applying a range of strategies to problem solving</li> <li>using mathematics, including budgeting and financial management to solve problems</li> <li>applying problem-solving strategies across a range of areas</li> <li>testing assumptions, taking into account the context of data and circumstances</li> <li>resolving customer concerns in relation to complex project issues</li> </ul>
<b>Initiative and enterprise</b> that contribute to innovative outcomes	<ul style="list-style-type: none"> <li>adapting to new situations</li> <li>developing a strategic, creative and long-term vision</li> <li>being creative</li> <li>identifying opportunities not obvious to others</li> <li>translating ideas into action</li> <li>generating a range of options</li> <li>initiating innovative solutions</li> </ul>
<b>Planning and organising</b> that contribute to long-term and short-term strategic planning	<ul style="list-style-type: none"> <li>managing time and priorities – setting time lines, coordinating tasks for self and with others</li> <li>being resourceful</li> <li>taking initiative and making decisions</li> <li>adapting resource allocations to cope with contingencies</li> <li>establishing clear project goals and deliverables</li> <li>allocating people and other resources to tasks</li> <li>planning the use of resources, including time management</li> <li>participating in continuous improvement and planning processes</li> </ul>



<b>Skill</b>	<b>Facets</b> Aspects of the skill that employers identify as important. The nature and application of these facets will vary depending on industry and job type.
	<ul style="list-style-type: none"> <li>• developing a vision and a proactive plan to accompany it</li> <li>• predicting – weighing up risk, evaluating alternatives and applying evaluation criteria</li> <li>• collecting, analysing and organising information</li> <li>• understanding basic business systems and their relationships</li> </ul>
<b>Self-management</b> that contributes to employee satisfaction and growth	<ul style="list-style-type: none"> <li>• having a personal vision and goals</li> <li>• evaluating and monitoring own performance</li> <li>• having knowledge and confidence in own ideas and visions</li> <li>• articulating own ideas and visions</li> <li>• taking responsibility</li> </ul>
<b>Learning</b> that contributes to ongoing improvement and expansion in employee and company operations and outcomes	<ul style="list-style-type: none"> <li>• managing own learning</li> <li>• contributing to the learning community at the workplace</li> <li>• using a range of mediums to learn – mentoring, peer support and networking, IT and courses</li> <li>• applying learning to technical issues (e.g. learning about products) and people issues (e.g. interpersonal and cultural aspects of work)</li> <li>• having enthusiasm for ongoing learning</li> <li>• being willing to learn in any setting – on and off the job</li> <li>• being open to new ideas and techniques</li> <li>• being prepared to invest time and effort in learning new skills</li> <li>• acknowledging the need to learn in order to accommodate change</li> </ul>
<b>Technology</b> that contributes to the effective carrying out of tasks	<ul style="list-style-type: none"> <li>• having a range of basic IT skills</li> <li>• applying IT as a management tool</li> <li>• using IT to organise data</li> <li>• being willing to learn new IT skills</li> <li>• having the OHS knowledge to apply technology</li> <li>• having the appropriate physical capacity</li> </ul>

### Employability Skills Summary

An Employability Skills Summary exists for each qualification in the Maritime Training Package. These are located at the front of Volumes 2, 3 and 4 of this Training Package for qualifications relevant to each volume.

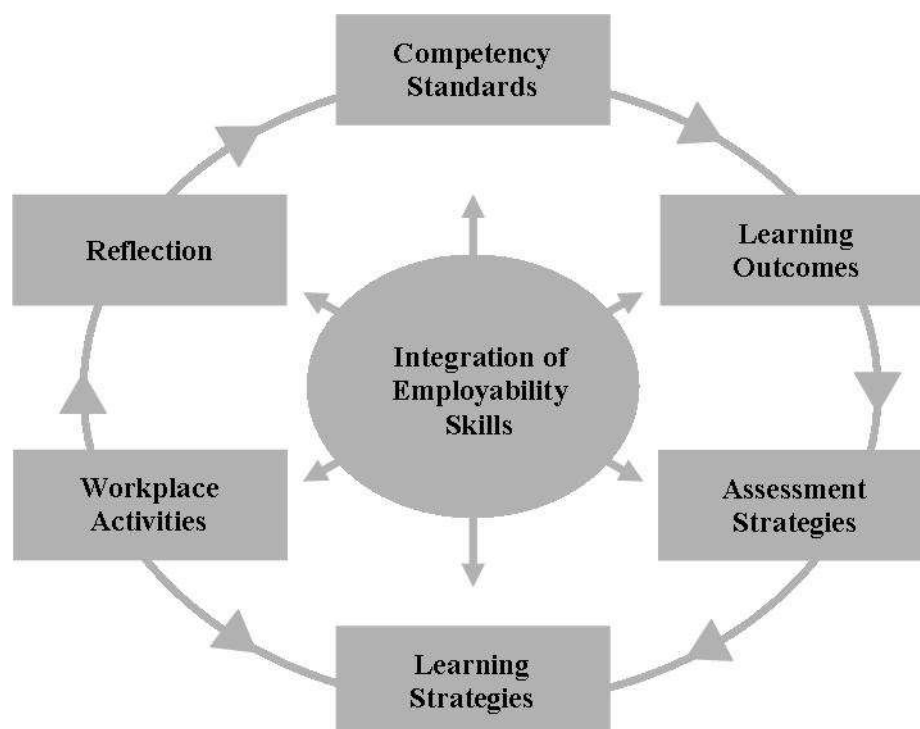
Summaries provide a lens through which to view Employability Skills at the qualification level and capture the key aspects or facets of the Employability Skills that are important to the job roles covered by the qualification. Summaries are designed to assist trainers and assessors to identify and include important industry application of Employability Skills in learning and assessment strategies.

The following is important information for trainers and assessors about Employability Skills Summaries.

- Employability Skills Summaries provide examples of how each skill is applicable to the job roles covered by the qualification.
- Employability Skills Summaries contain general information about industry context which is further explained as measurable outcomes of performance in the units of competency in each qualification.
- The detail in each Employability Skills Summary will vary depending on the range of job roles covered by the qualification in question.
- Employability Skills Summaries are not exhaustive lists of qualification requirements or checklists of performance (which are separate assessment tools that should be designed by trainers and assessors after analysis at the unit level).
- Employability Skills Summaries contain information that may also assist in building learners' understanding of industry and workplace expectations.

### **Delivery and Assessment of Employability Skills**

Employability Skills are integral to workplace competency and, as such, must be considered in the design, customisation, delivery and assessment of vocational education and training programs in an integrated and holistic way, as represented diagrammatically below.



Training providers must analyse the Employability Skills information contained in units of competency in order to design valid and reliable learning and assessment strategies. This analysis includes:

- reviewing unit(s) of competency to determine how each relevant Employability Skill is found and applied within the unit
- analysing the Employability Skills Summary for the qualification in which the unit(s) is/are packaged to help clarify relevant industry/workplace contexts with regard to the application of Employability Skills at that qualification level
- designing learning and assessment activities that address the Employability Skills requirements.

For more information on Employability Skills, go to the Department of Industry, Innovation, Science, Research and Tertiary Education website at <[www.innovation.gov.au](http://www.innovation.gov.au)>.

## Pathways information

There are many pathways into and through occupations within the Maritime Industry. These occupations are subject to a wide range of state, territory, national and international regulatory requirements, codes and conventions.

For many of the occupations, it is necessary to hold a Certificate of Competency or at least to have completed specific certification requirements before you can be actively employed on the types of vessels concerned in particular operational areas. These certification requirements include educational requirements (e.g. the vocational qualifications contained in this Training Package) but also involve a range of other requirements such as periods of sea time on particular vessels, medical certificates, radio operator certificates and first aid certificates. In other words, for most occupations on vessels, the achievement of Training Package qualification is only a partial fulfilment of the regulatory requirements that must be demonstrated by a person seeking a Certificate of Competency from the relevant State or Territory marine authority or Australian Maritime Safety Authority.

The information described here only explains the more significant pathways between qualifications and does not represent the only pathways. The information describes only the pathway relationships between the ‘education pathways’ and is not intending to provide information on the diverse range of occupations and positions on various types of vessels operating within unlimited or restricted conditions.

Users of the MAR13 Maritime Training Package are therefore encouraged to access the pertinent documents from the relevant marine authorities to understand the various regulated occupations in the Maritime Industry and the full certification requirements for each. Contact details of the various marine authorities are listed in the Assessment Guidelines section of this general introduction volume.

Two key documents that describe regulatory requirements for occupations in the Maritime Industry are:

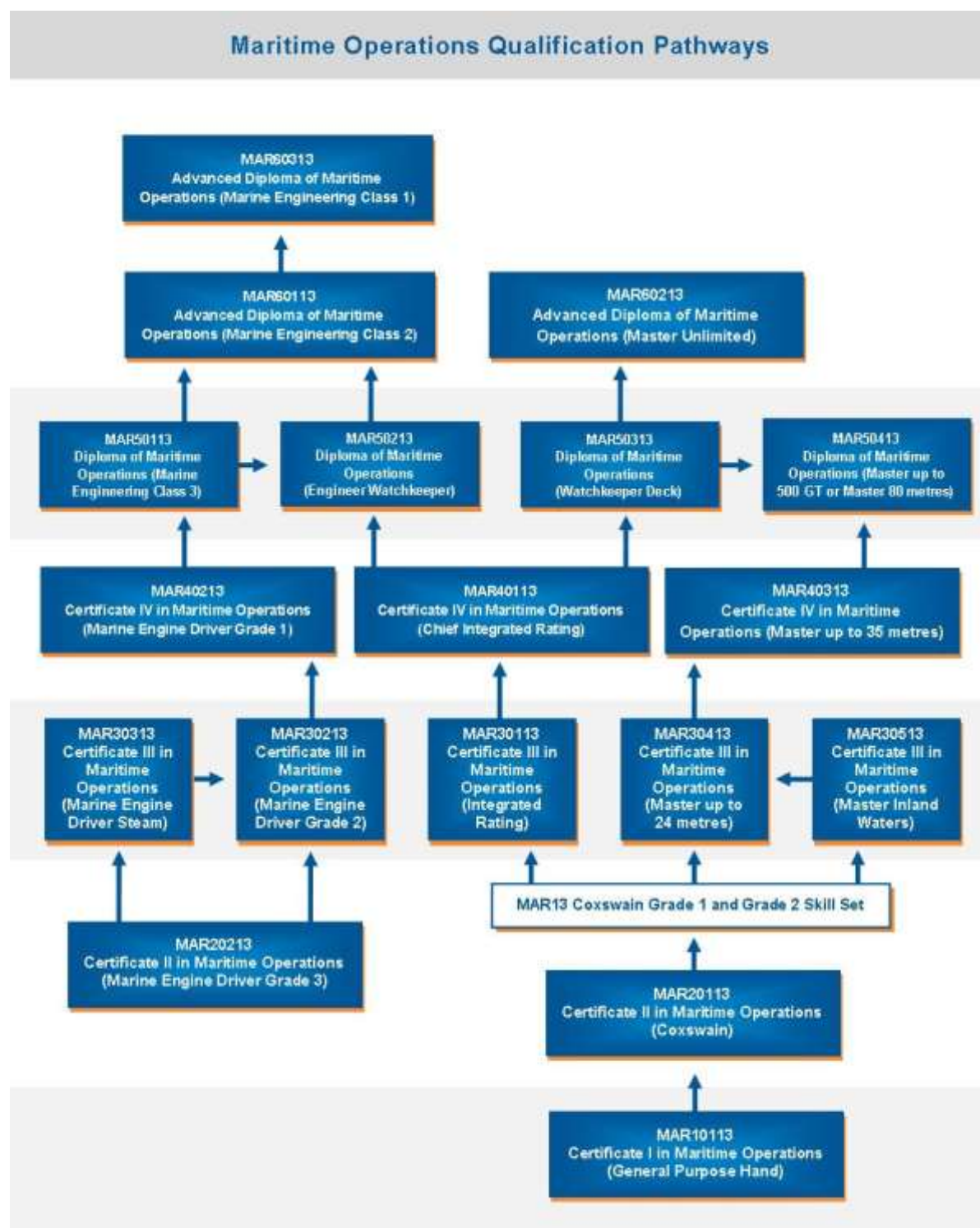
- Part D of the National Standard for Commercial Vessels (Applicable to regulated occupations involved in coastal operations and downloadable from the National Marine Safety Committee (NMSC) website – <http://www.nmsc.gov.au>)

- Marine Orders – Part 3: Seagoing Qualifications under the Australian Navigation Act 2012. (Applicable to regulated occupations involved in ocean-going operations and downloadable from the AMSA website – <http://www.amsa.gov.au>).

Figure 2 describes the main qualification pathways for Maritime Operations.

Figure 3 describes the main qualification pathways for Marine Surveying.

It should be noted that the qualifications shown in the charts represent only those specifically aligned to Certificates of Competency that are issued by the relevant marine authorities. There is a range of other persons employed on the various types of ‘coastal’ vessels who may be engaged in activities related to hospitality, catering, tourism, emergency services, retail, fishing, salvage, maritime survey, harbour services, etc. who may not be specifically operating and maintaining the vessel but who may need to fulfil the basic competency requirements specified by marine authorities for maritime safety, survival, environmental protection, emergency procedures, etc. To provide for these needs a series of unregulated qualifications is also provided in the Training Package.

**Figure 2 Pathways Chart: Maritime Operations**

**Figure 3 Pathways chart: Marine Surveying**