



Australian Government

MARK008 Manoeuvre a vessel up to 24 metres within Near Coastal waters

Release: 2

MARK008 Manoeuvre a vessel up to 24 metres within Near Coastal waters

Modification History

Release 2. This is the second release of this unit of competency in the MAR Maritime Training Package.

- Minor statement changes in unit Application
- Minor statement changes in Knowledge Evidence
- Minor statement changes in Assessment Conditions.

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

Application

This unit involves the skills and knowledge required to manoeuvre a vessel of up to 24 metres in length within Near Coastal waters.

This unit applies to people working in the maritime industry in the capacity of:

- Master up to 24 metres Near Coastal
- Master Inland Waters

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Master Inland waters and Master up to 24 metres Near Coastal as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA.

Pre-requisite Unit

Not Applicable.

Competency Field

K – Manoeuvring Vessels

Unit Sector

Not Applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Manoeuvre vessel in normal conditions

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1** Features of vessel that relate to its handling characteristics are recognised
- 1.2** Details of manoeuvres are communicated to relevant personnel clearly and concisely using standard maritime vocabulary
- 1.3** Situational awareness is maintained to ensure safe manoeuvres
- 1.4** Manoeuvres are completed to meet passage requirements
- 1.5** Propulsion equipment is used and monitored to assist in completing manoeuvres safely
- 1.6** Appropriate alterations to vessel heading are made in response to operational environment
- 1.7** Safe operating limits of propulsion and steering equipment are not exceeded

2 Manoeuvre vessel in adverse weather conditions

- 2.1** Nature of adverse weather conditions is identified and the potential impact on the manoeuvrability of the vessel is determined
- 2.2** Appropriate action is taken to ensure the safety of vessel
- 2.3** Propulsion equipment is used and monitored to assist in completing actions safely
- 2.4** Heading is maintained within acceptable limits
- 2.5** Appropriate allowance is made for effects of deadweight, draft, trim, speed and underwater keel clearances during turning circles and stopping distance
- 2.6** Safe operating limits of propulsion and steering

		equipment are not exceeded
	2.7	Situational awareness is maintained at all times to review actions and ensure safety of vessel
3	Manoeuvre vessel in emergencies	
	3.1	Nature of the emergency is established and required action is determined
	3.2	Risks to the vessel and the safety of persons on board are assessed and safety of required action is confirmed
	3.3	Details of action are communicated to relevant personnel clearly and concisely using standard maritime vocabulary
	3.4	Appropriate manoeuvres are made during the emergency to maintain the safety of the vessel and those on board, and any other vessels or persons involved
	3.5	Propulsion equipment is used and monitored to assist in completing actions safely
	3.6	Safe operating limits of propulsion and steering equipment are not exceeded
4	Tow and be towed	
	4.1	Preparations for towing are safely made according to established nautical practice
	4.2	Correct towing procedures and precautions are applied when towing and being towed

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This unit replaces and is equivalent to MARK002 Manoeuvre a vessel up to 24 metres within near coastal waters.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>

Assessment Requirements for MARK008 Manoeuvre a vessel up to 24 metres within Near Coastal waters

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- anchoring a vessel
- determining required actions for a range of emergency situations
- handling a disabled or partially disabled vessel
- issuing helm and engine orders
- maintaining situational awareness, including:
 - own vessel position in relation to shallow water and other obstructions
 - vessels in the vicinity
 - weather conditions that may affect the manoeuvre
- manoeuvring a vessel astern
- manoeuvring a vessel in adverse weather conditions, including:
 - reducing speed
 - seeking shelter
 - steering a course to minimise the effect of wind and sea
- manoeuvring a vessel to:
 - approach an anchorage
 - berth and leave a berth
 - come to and leave a mooring
 - safely launch and retrieve boats or life rafts
 - turn across the tide or across the wind
 - turn short around

- operating secondary or emergency means of steering
- rescuing a person overboard, including:
 - manoeuvring to retrieve person overboard
 - Williamson turn
- towing and being towed
- undertaking preparations for towing.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- appropriate reports to be made for authorities when towing
- deployment and use of sea anchor to keep vessel head to sea
- effects of interaction with passing or moored vessels
- effects of trim and displacement on the manoeuvring characteristics of a vessel
- factors that could adversely affect vessel safety during operations
- features of a vessel that relate to its handling characteristics, and their effects, including:
 - displacement and planing hulls
 - propellers
 - propulsion units, including:
 - inboard engines
 - inboard-outboard engines
 - jet propulsion
 - outboard engines
 - rudders
- launching procedures for boats or life rafts
- lessening drift and use of oil
- manoeuvring conditions that may affect the safety of the vessel, including:
 - heading to wind and sea to ride out the adverse weather
 - in a narrow channel or shallow water
 - in fog and restricted visibility
 - in heavy swell and surf
 - in heavy weather
 - to cross a bar with and against the sea
- manoeuvring procedures to:
 - assist a vessel or aircraft in search and rescue
 - beach and re-float the vessel
 - position for helicopter evacuation
- manoeuvring procedures in the event of:
 - beaching

- collision
- damage to the vessel
- disabled or partially disabled vessel
- fire
- grounding
- loss of steering gear
- person overboard
- precautions when manoeuvring or launching boats or life rafts in bad weather
- preparations for towing, including:
 - crew briefings that include the task at hand and risks to persons on both vessels
 - ensuring appropriate lights and shapes for the tow are available and in working order
 - ensuring means of communication between the two vessels is available
 - ensuring tow line is of sufficient length to minimise shock loading on tow-line
 - ensuring tow ropes are in good condition and of adequate strength for the proposed tow
 - making provision for rapid slipping of the tow in emergency situations
 - making tow fast to the towing vessel to ensure steerage can be maintained
 - preparing messenger ropes for passing tow lines
- procedures for towing and being towed
- process and requirement to assist vessels in distress
- work health and safety (WHS)/occupational health and safety (OHS) requirements and safe work practices.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Practical assessment must occur in a workplace, or realistic simulated workplace, under the normal range of workplace conditions.

Simulations and scenarios may be used where situations cannot be provided in the workplace or may occur only rarely, in particular for situations relating to emergency procedures and adverse weather conditions where assessment would be unsafe, impractical or may lead to environmental damage.

Resources for assessment must include access to:

- applicable documentation, such as legislation, regulations, codes of practice, safety management system (SMS), workplace procedures and operational manuals
- a commercial vessel greater than or equal to 7.5 m in length

- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) that are currently used in industry.

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