



**Australian Government**

# **MARK007 Handle a vessel up to 12 metres**

**Release: 2**

# MARK007 Handle a vessel up to 12 metres

## 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 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 up to 12 metres in length. This includes the ability to berth, moor, anchor and manoeuvre a vessel during emergencies.

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

- Coxswain Grade 1
- Coxswain Grade 2
- Coxswains Grade 3.

## Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

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 Handle vessel in normal conditions**

#### **2 Handle vessel in adverse weather conditions**

#### **3 Handle vessel in emergencies**

### 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 safety of 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** Safe operating limits of propulsion and steering equipment are not exceeded
- 2.1** Nature of adverse weather conditions is identified and potential impact on the manoeuvrability of the vessel is determined
- 2.2** Appropriate action is determined to ensure the safety of the vessel
- 2.3** Correct use of propulsion equipment is established to assist in completing manoeuvres safely
- 2.4** Safe operating limits of propulsion and steering equipment are not exceeded
- 2.5** Situational awareness is maintained at all times to review actions and ensure the safety of the vessel
- 3.1** Nature of emergency is established and required action is determined
- 3.2** Risks to vessel and safety of persons on board are assessed and safety of required action is confirmed
- 3.3** Details of actions 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 manoeuvres 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 made safely 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 MARK001 Handle a vessel up to 12 metres.

## 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 MARK007 Handle a vessel up to 12 metres

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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
- applying work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- handling a disabled or partially disabled vessel
- manoeuvring a vessel to:
  - berth and leave a berth
  - come to and leave a mooring
  - maintain a steady course
  - retrieve a person overboard
  - steer astern
  - turn short around
  - turn a vessel across the tide and across the wind
- maintaining situational awareness
- towing and being towed
- undertaking preparations for towing, including:
  - briefing crew that include the task at hand and risks to persons on both vessels
  - ensuring means of communication between the two vessels is available
  - ensuring tow ropes are in good condition and of adequate strength and length for the proposed tow
  - ensuring tow line is of sufficient length to minimise shock loading on tow-line
  - making tow fast to the towing vessel to ensure steerage can be maintained
  - making provision for rapid slipping of the tow in emergency situations
  - preparing messenger ropes for passing tow lines

- using clearly, concisely and appropriate standard maritime vocabulary when communicating with personnel.

## 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:

- adverse weather conditions, including:
  - fog and restricted visibility
  - tropical revolving storms
  - wind and sea conditions that may affect the safety of the vessel
- avoidance of tropical revolving storm activity
- elliptical turn
- features of a vessel that relate to its handling characteristics, and their effects, including:
  - displacement and planing hulls
  - propellers
  - propulsion units, including:
    - jet units
    - inboard engines
    - outboard motors
  - rudders
  - trim and displacement
- manoeuvring in the event of emergencies, including:
  - collision
  - disabled or partially disabled vessel
  - grounding
  - person overboard
- manoeuvring characteristics of small power-driven vessels
- manoeuvring a vessel in the vicinity of large vessels
- manoeuvring to beach and re-float the vessel
- manoeuvring a vessel in adverse weather conditions, including:
  - altering course to minimise the effect of wind and sea
  - berth and leave a berth in various wind and tidal conditions
  - deploying a sea anchor to keep vessel head to sea
  - heading to wind and sea to ride out the adverse weather
  - reduction of speed
  - seeking shelter
- procedures for towing and being towed
- stability of a small vessel and stability terms
- techniques for crossing a coastal bar with and against the sea

- techniques for handling a vessel in heavy swell and surf
- trim and displacement
- use of a sea anchor
- Williamson turn
- WHS/OHS requirements and 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, operational manuals and maritime publications and procedures relating to emergency response
- a vessel greater than or equal to 5.0 m in length
- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) currently used in industry.

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