



**Australian Government**

# **Assessment Requirements for MARK013 Manoeuvre a vessel up to 100 metres**

**Release: 1**

# Assessment Requirements for MARK013 Manoeuvre a vessel up to 100 metres

## Modification History

**Release 1.** This is the first release of this unit of competency in the MAR Maritime Training Package.

## 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
- manoeuvring a vessel in normal and emergency situations
- manoeuvring a vessel through:
  - anchor work
  - astern movements
  - berthing and leaving a berth
  - coming to and leaving a mooring
  - person overboard
  - positioning vessel to safely launch boats or life rafts in bad weather
  - steering astern through an 's' configuration
  - turn short around
  - turning a vessel across the tide across the wind
- manoeuvring a vessel to embark or disembark a pilot
- manoeuvring in shallow water
- preparing for towing, including:
  - 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
  - ensuring tow ropes are in good condition and of adequate strength for proposed tow
  - making appropriate reports to authorities
  - making provision for rapid slipping of tow in emergency situations
  - making tow fast to towing vessel to ensure steerage is maintained
  - preparing messenger ropes for passing tow lines.

## 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:

- Convention on the International Regulations for Preventing Collisions at Sea (COLREG - Preventing collisions at sea) including:
  - effects of deadweight, draught, trim, speed, under keel clearance, tide and current on vessel's stopping distance and rate of turn
  - interaction with passing vessels, squat, shallow water and banks effect
  - manoeuvres assisting a vessel or aircraft in distress
  - radio communications
- effects of displacement and planing hulls
- effects of inboard propulsion units
- effects of rudders and propellers
- factors that could adversely affect vessel safety during operations
- features of a vessel that relate to its handling characteristics
- launching boats or life rafts
- lessening drift and use of oil
- manoeuvres to:
  - beach and re-float the vessel
  - berth in a pen
  - crossing a bar
  - embarking and disembarking a pilot
  - means of keeping a vessel out of a trough
  - take on board survivors from lifeboats and life rafts
- nature of emergencies, including:
  - collision
  - damage to vessel
  - disabled or partially disabled vessel
  - fire
  - grounding
  - loss of steering gear
  - person overboard
- precautions in manoeuvring or launching boats or life rafts in bad weather
- procedures for towing and being towed
- requirements for entering, departing and crossing a traffic separation scheme
- use of a sea anchor
- vessel in adverse weather conditions, including:
  - bad weather
  - fog and restricted visibility
  - following and quartering seas

- heavy swell and surf
- wind and sea conditions that may affect safety of vessel
- work health and safety (WHS)/occupational health and safety (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:

- a commercial vessel greater than or equal to 12 metres in length
- applicable documentation, such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- tools, equipment, machinery, materials and personal protective equipment (PPE) currently used in industry.

## Links

Companion Volume Implementation Guides are found in VETNet -

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