



Australian Government

MARK001 Handle a vessel up to 12 metres

Release: 2

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Modification History

Release 2. Change to items in the Range of Conditions to 'include one or more of the following'. Mapping information has been corrected.

Release 1. New unit of competency.

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 as Coxswain Grade 1 Near Coastal and Coxswain Grade 2 Near Coastal on a range of vessels up to 12 metres.

This unit has links to legislative and certification requirements.

Pre-requisite Unit

Not applicable.

Competency Field

K – Manoeuvring Vessels

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1 Handle vessel in normal conditions

- 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 Handle vessel in adverse weather conditions**
- 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 Handle vessel in emergencies**
- 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 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 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

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

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

- Features of vessel include one or more of the following:
- displacement and planing hulls
 - outboard and inboard propulsion units
 - rudders and propellers
 - stability
 - trim and displacement
- Manoeuvres include one or more of the following:
- astern movements
 - berthing and leaving a berth
 - berthing and unberthing in a pen
 - coming to and leaving mooring
 - retrieval of person overboard
 - turning a vessel across tide and wind
 - turning short around in a limited space
- Propulsion equipment must include:
- inboard engine
 - outboard engine
- Adverse weather conditions include one or more of the following:
- fog and restricted visibility
 - tropical revolving storm activity in the area
 - wind and sea conditions that may affect the safety of the vessel
- Appropriate action includes one or more of the following:
- altering course to minimise the effect of wind and sea
 - 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
- Nature of emergency includes one or more of the following:
- beaching
 - collision
 - disabled or partially disabled vessel
 - grounding
 - person overboard

- Preparations for towing must include:
- communication with towed vessel
 - means of transferring towing line to or from the towed vessel
 - preparation of towing lines appropriate for the tow
- Correct towing procedures must include:
- if the tow is manned, means of communication must be available
 - methods of securing the tow line must be capable of being slipped
 - towing lines and associated equipment must be of sufficient strength to ensure the tow can be safely conducted

Unit Mapping Information

This unit replaces and is equivalent to MARK2001A Handle a vessel up to 12 metres.

Links

MAR Maritime Training Package Companion Volume Implementation Guide at: -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=22