

**Australian Government** 

# MARN002 Apply seamanship skills aboard a vessel up to 12 metres

Release: 1



# MARN002 Apply seamanship skills aboard a vessel up to 12 metres

#### **Modification History**

Release 1. New unit of competency.

#### Application

This unit involves the skills and knowledge required to apply practical seamanship skills and techniques as part of work duties aboard a vessel up to12 metres.

This unit applies to Coxswain Grade 1 Near Coastal and Coxswain Grade 2 Near Coastal working in the maritime industry on vessels up to 12 metres.

This unit has links to legislative and certification requirements.

# **Pre-requisite Unit**

Not applicable.

# **Competency Field**

N-Seamanship

# **Unit Sector**

Not applicable.

#### **Elements and Performance Criteria**

Elements describe the<br/>essential outcomes.Performance criteria describe the performance needed to<br/>demonstrate achievement of the element.1Use and maintain<br/>ropes1.1Rope types and common areas of use are correctly identified<br/>1.21.2Ropes are checked for wear and repairs are undertaken<br/>according to manufacturer guidelines1.31.3Ropes are coiled and stowed correctly

1.4 Knots and hitches are tied neatly and securely, and are used according to their correct application

- 1.5 Ropes are spliced neatly and securely according to their correct application
- 1.6 Rope ends are whipped where appropriate to maintain good condition
- 2.1 Prior to letting go, anchor and equipment are prepared
  - 2.2 Quantity of anchor cable run out or recovered is appropriate to the depth of water, weather and sea conditions, and tidal range in area of operation
  - 2.3 During operation, control of cable is maintained within safe operating limits
  - 2.4 Degree to which anchor and equipment are secured on completion of anchoring operations is appropriate to forecast conditions
  - 2.5 During all operations, anchoring area is kept free of loose ropes, wires and debris
- Secure vessel at a3.1At all times, mooring lines and associated equipment are<br/>handled safely
  - 3.2 Throughout operations, mooring area is kept free of loose ropes, wires and debris
  - 3.3 Tension on ropes is maintained at an appropriate level for the stage and nature of the operation
  - **id** 4.1 Coverage and frequency of checks and inspections on vessel seaworthiness are undertaken according to workplace procedures and organisational safety management system
    - 4.2 Watertight integrity is checked and appropriate action is taken to prepare for prevailing and forecast weather and sea conditions
    - 4.3 Degree to which vessel is secured is appropriate to prevailing and forecast conditions
    - 4.4 Irregularities are identified and appropriate action is taken to rectify the situation
    - 4.5 Irregularities beyond ability to rectify are reported in time to enable remedial action to be taken
    - 4.6 Reports of condition are completed according to workplace

berth

Secure vessel at

anchor

2

3

4 Check condition and seaworthiness of vessel procedures

5	Conduct refuelling operations	5.1	All personal protective equipment is accessed and used
		5.2	Safety boundary for the refuelling process is established
		5.3	Spill prevention systems are correctly deployed
		5.4	Refuelling operations are performed safely and according to organisational safety management system

#### **Foundation Skills**

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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.

Rope types include one or more of the following:

• Kevlar

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natural fibre

braided

- plaited
- polyester
- wire core rope
- wire rope

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bowline • Knots and hitches include clove hitch one or more of the following: eye splice reef knot • rolling hitch round turn and two half hitches short splice anchor buoy Anchor and equipment anchor securing arrangements includes one or more of the • following: sea anchor single anchor twin anchor windlass back springs Mooring lines include one bow and stern ropes or more of the following: • breast lines fore and aft springs • accommodation spaces Coverage includes one or • engine room more of the following • galley • navigation lights personal facilities storage spaces trailer lights wheelhouse accommodation and storage spaces Secured includes one or • anchors more of the following:

- galley, stores and equipment
- materials on deck and below
- large objects likely to move in a sea way
- openings

Irregularities include one or • more of the folowing:

- factors affecting the safety and integrity of:
  - crew
  - equipment
  - materials, such as cargo
  - vessel

#### **Unit Mapping Information**

This is a new unit. This unit is equivalent to MARN2001A Apply seamanship skills aboard 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