



Australian Government

Assessment Requirements for MARN003 Perform seamanship operations on board a vessel up to 24 metres

Release: 1

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Modification History

Release 1. New unit of competency.

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 vessel according to depth and prevailing winds
- checking seaworthiness of vessel
- completing basic stability calculations
- correctly coiling and stowing ropes
- correctly slinging loads ready for lifting
- correctly interpreting vessel stability data
- inspecting and maintaining harnesses, safety lines and other equipment for working aloft
- maintaining watertight integrity of vessel
- performing an eye splice and a short splice
- performing appropriate whippings on ropes and line
- preparing and throwing a heavy line
- recognising damaged or worn ropes, wires and chains
- recognising routine problems during lifting and rigging operations
- refuelling vessel with due regard to regulations and organisational procedures
- safely handling ropes and wires
- safely operating winches and windlasses
- safely working aloft or over the side
- securing vessel at its berth according to operational requirements and prevailing conditions
- selecting and using appropriate rigging and lifting gear
- tying figure-eight knot, reef knot, bowline and cod-end knot
- tying half hitch, clove hitch, round turn and two half hitches, rolling hitch and timber hitch
- using knots, hitches and securing arrangements.

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:

- anchoring principles and methods for different conditions
- basic structural parts of a small vessel
- being aware of own ability and limits to rectify irregularities
- communication techniques when operating lifting gear
- construction of vessel sufficient to understand which areas need to be made watertight
- correct application of common knots and hitches
- correct use and maintenance of equipment used for working aloft and over the side
- dangers of working with ropes under tension
- different types of anchors and where they can be most effectively used
- how to determine breaking strain and safe working load for ropes and equipment
- how to make vessel watertight
- maintenance of different types of rope, wire and chain
- methods of securing cargo including vehicles, stores and equipment on vessel before it puts to sea
- pollution regulations
- precautions to take when working aloft or over the side
- principles and limitations of lifting equipment and components
- principles of safe handling and transport of dangerous cargo
- procedures for checking and operating lifting equipment
- providing the required amount of detail in reports
- regulations affecting watertight integrity
- routine and emergency operation of anchors
- use of sea anchors
- work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.

Links

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