



Australian Government

Assessment Requirements for MARC062

Perform mooring operations

Release: 1

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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, performance criteria and range of conditions on at least one occasion and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- communicating effectively with other personnel when mooring and unmooring a vessel using standard nautical terms
- following all orders carefully and systematically
- following work instructions
- handling mooring lines on deck of lines launch, flaking and positioning of mooring lines
- handling rope appropriately and correctly:
 - applying a chain stopper to a natural cordage rope
 - applying a chain stopper to a wire rope
 - applying a stopper to a synthetic fibre rope
 - attaching a line to a bollard or bitt with all lines in correct order such as up through the eye
 - flaking down a rope
 - heaving on a line in collaboration with other members of a mooring team
 - storing and caring for ropes and lines
 - tying knots such as bowline, reef knot, overhand knot, figure of eight knot, sheet bends and clove hitch and splicing and whipping, round turn two half hitches
- handling wire mooring lines in lines launch
- identifying and correctly using:
 - personal protective equipment (PPE)
 - various types of ropes, steel wires and mooring equipment
- initiating timely action in response to defects or damage
- interpreting and following procedures for mooring operations, including safety instructions and precautions
- recognising dangers and hazards before and during mooring operations, and taking appropriate action to report and/or rectify them
- recognising problems that may occur during mooring operations and taking appropriate

- action to report and/or resolve them
- taking proper care of ropes and mooring equipment
- types of methods and configurations used for headlines and sternlines
- using various vehicles for towing mooring lines, as required
- working effectively as a member of a mooring and /or unmooring team.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- awareness of line launches propeller when towing mooring lines
- communications techniques and equipment required during mooring operations
- correct method of crossing ship's mooring lines over and or between other vessel's mooring lines already berthed
- dangers and hazards associated with mooring systems:
 - 'snap back' when a line breaks
 - back strain from carrying a line, heaving on a line or heaving on a line
 - being hit by a heaving line being thrown down from a vessel
 - being struck by a parting line
 - demarcated areas
 - falling off the edge of the wharf into the water
 - increase in risk when lines are being released
 - mixing rings and wire rope
 - securing a gangway
 - snapback zone
 - standing clear of lines under tension
 - stepping inside the bight of a line
 - trip hazards such as crane lines
- factors that affect mooring operations, including the effects of wind, weather, tides, sea conditions, currents, draft changes and surges from passing vessels on mooring operations
- hazards and problems, and appropriate preventative and remedial action and solutions
- methods for mooring and unmooring a vessel, including:
 - block and tackle and vehicle towbar method for handling and securing gangway
 - required rope handling techniques and precautions
- monitor mooring loads and tension on ropes and equipment
- operational characteristics of different types of lines, equipment and facilities used in mooring operations including:
 - structure and characteristics of ropes, lines and wires
- operational procedures and layouts of various types of shore-side loading and discharging terminals and wharves

- PPE required for use during mooring operations
- procedures for assessing stresses on lines and gear used in mooring operations
- reason for and correct method of dipping mooring line
- relevant manufacturer guidelines relating to use of machinery, including instructions on equipment capability and limitations
- relevant work WHS/OHS codes of practice, policies and procedures
- safety drills and equipment used for lines launch
- standard nautical terms in relation to mooring activities and related equipment
- technique for releasing fouled mooring lines under wharfs and around ship anchors.

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.

Assessment must occur in workplace operational situations, and where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Resources for assessment must include access to:

- applicable documentation such as workplace procedures, regulations, codes of practice, operation manuals, manufacturer instructions and procedures
- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) currently used in industry including:
 - bridge marker:
 - at night vehicle with flashing hazard light
 - flag
 - vehicles used for towing mooring lines.

Links

Companion Volume Implementation Guides are found in VETNet -

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