

Assessment Requirements for MARC022 Perform mooring and unmooring activities

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, 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
- · being aware of own ability and limits to rectify irregularities and faults
- communicating effectively with other personnel when mooring and unmooring a vessel using standard nautical terms
- complying with relevant maritime regulations and International Maritime Organization
 (IMO) Conventions and Codes, including the relevant sections of the Australian Maritime
 Safety Authority (AMSA) Marine Orders as they apply to mooring and unmooring operations
 on ocean-going vessels
- ensuring behaviour reflects relevant current legislative and regulatory requirements
- 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:
 - 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
 - applying a chain stopper to a wire rope
 - heaving on a line in collaboration with other members of a mooring team
 - applying a stopper to a synthetic fibre rope
 - applying a chain stopper to a natural cordage 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
- handling wire mooring lines in lines launch
- identifying and correctly using:
 - various types of ropes, steel wires and mooring equipment
 - personal protective equipment (PPE)
- implementing port and vessel security procedures

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- initiating timely action in response to defects or damage
- interpreting and following procedures for mooring and unmooring operations, including safety instructions and precautions
- recognising dangers and hazards before and during mooring and unmooring operations, and taking appropriate action to report and/or rectify them
- recognising problems that may occur during mooring and unmooring operations and taking appropriate action to report and/or resolve them
- taking proper care of ropes and mooring equipment
- · 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 and unmooring operations
- correct method of crossing ship's mooring lines over and or between other vessel's mooring lines already berthed
- dangers associated with mooring systems:
 - being hit by a heaving line being thrown down from a vessel
 - stepping inside the bight of a line
 - being struck by a parting line
 - mixing rings and wire rope
 - falling off the edge of the wharf into the water
 - back strain from carrying a line, heaving on a line or heaving on a line
 - 'snap back' when a line breaks
 - trip hazards such as crane lines
- factors that affect mooring and unmooring operations, including the effects of wind, weather, tides, sea conditions, currents, draft changes and surges from passing vessels on mooring and unmooring operations
- hazards and problems, and appropriate preventative and remedial action and solutions
- · maritime regulations applicable to mooring and unmooring vessels
- methods for mooring and unmooring a vessel, including all required rope handling techniques and precautions
- operational characteristics of different types of lines, equipment and facilities used in mooring and unmooring operations
- operational procedures and layouts of various types of shore-side loading and discharging

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terminals and wharves

- PPE required for use during mooring and unmooring operations
- procedures for assessing stresses on lines and gear used in mooring and unmooring 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 sections of the Standards of Training, Certification & Watchkeeping (STCW) 95 and AMSA Marine Orders
- relevant work WHS/OHS codes of practice, policies and procedures
- · safety drills and equipment used for lines launch
- snapback zone and demarcated areas
- standard nautical terms in relation to mooring activities and related equipment
- technique for releasing fowled mooring lines under wharfs and around ship anchors.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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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 or where this is not available, in simulated workplace operational situations or an industry-approved marine operations site that replicate workplace conditions where mooring and unmooring activities can be demonstrated.

Resources for assessment include access to:

- a range of relevant exercises, case studies and/or other simulated practical and knowledge assessments
- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment, materials and PPE currently used in industry
- bridge marker:
 - at night vehicle with flashing hazard light
 - flag
- vehicles used for towing mooring lines.

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Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2

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