



Australian Government

Assessment Requirements for MARC031 Shift mooring lines using mechanical means

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
- communicating effectively with other personnel when mooring and unmooring a vessel
- 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 work instructions
- following all orders carefully and systematically
- implementing port and vessel security procedures
- initiating timely action in response to defects or damage
- interpreting and follow procedures for mooring and unmooring operations, including safety instructions and precautions
- operating mechanical mooring equipment appropriately and correctly
- receiving mooring lines correctly
- recognising dangers, hazards and problems before and during mooring and unmooring operations, and taking appropriate action to report and/or rectify them
- taking proper care of ropes and mechanical mooring equipment
- using capstans and quick release systems correctly
- 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:

- communications techniques and equipment required during mooring and unmooring operations
- continuous measurement of mooring loads
- correct order of mooring lines
- correct process/technique for receiving mooring lines
- 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
 - '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
- mooring load monitoring systems
- operation, features and application of integrated capstans
- operation, features and application of quick release systems
- operational characteristics of different types of lines and equipment
- operational procedures and layouts of various types of shore-side loading and discharging terminals and wharves
- personal protective equipment (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 Standards of Training, Certification & Watchkeeping (STCW) 95 and AMSA Marine Orders
- remote control systems for remote hook release
- 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
- various types of hook assembly and their application
- WHS/OHS codes of practice, policies and procedures.

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 where mechanical mooring and unmooring can be undertaken. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- tools, equipment, machinery, materials and personal protective equipment currently used in industry including:
 - counterbalanced hooks
 - docking aid system
 - integrated capstans
 - mooring instrumentation
 - quick release hooks
 - quick release systems
 - single and multiple hook assemblies.

Links

Companion Volume implementation guides are found in VETNet -

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