



Australian Government

MARF050 Follow work health and safety, and emergency procedures during mooring operations

Release: 1

MARF050 Follow work health and safety, and emergency procedures during mooring operations

Modification History

Release 1. This is the first release of this unit of competency in the MAR Maritime Training Package.

Application

This unit involves the skills and knowledge required to follow work health and safety (WHS)/occupational health and safety (OHS) policy and procedures, and emergency procedures during mooring operations.

This unit applies to people working in the maritime industry as a Linesperson.

Licensing/Regulatory information

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

F – Operational Quality and Safety

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Follow safety and hazard control procedures

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Tests and inspections of ropes and equipment are conducted according to manufacturer's instructions and terminal and workplace procedures

- 1.2** Hazards and risks are identified and reported to appropriate personnel in accordance with workplace procedures
 - 1.3** Corrective action is taken to eliminate or minimise risk to personnel, port facilities, vessel and the environment in accordance with workplace procedures and instructions
 - 1.4** Safety precautions and hazard minimisation procedures and regulations are followed at all times during mooring operations
 - 1.5** Safe distance from snapback zones, danger zones and demarcated area is maintained during tensioning and slackening of lines
- 2 Use personal protective equipment**
 - 2.1** Personal protective equipment (PPE) is selected and inspected prior to commencement of operations in accordance with workplace procedures
 - 2.2** PPE is used and stored correctly after use in accordance with workplace procedures
- 3 Follow safety and emergency procedures**
 - 3.1** Wharf, port and vessel emergency procedures are identified and accessed
 - 3.2** Emergency procedures and instructions are followed in accordance with workplace procedures (as required)
 - 3.3** Action is taken to secure vessel and maintain safety of vessel and person involved, in a mooring or unmooring incident in accordance with workplace procedures
 - 3.4** Emergencies are identified correctly and reported to appropriate personnel in accordance with emergency procedures
 - 3.5** Escape routes, emergency communications, alarm signals and alarm systems are used in accordance with emergency procedures (as required)
 - 3.6** Emergencies and safety incidents are recorded accurately and reported to appropriate personnel in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to MARF017 Follow work health and safety, and emergency procedures during mooring and unmooring activities.

Links

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

Assessment Requirements for MARF050 Follow work health and safety, and emergency procedures during mooring operations

Modification History

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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:

- communicating effectively with other personnel when mooring and unmooring a vessel
- 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 (dipping)
 - flaking down a rope
 - forming a bight
 - 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, clove hitch, splicing and whipping, round turn two half hitches
- identifying and correctly using:
 - personal protective equipment (PPE)
 - various types of ropes, steel wires and mooring equipment
- interpreting and following work health and safety (WHS)/occupational health and safety (OHS), and safety management procedures for mooring operations, including safety instructions and precautions
- recognising risks and hazards before and during mooring operations, and taking appropriate action to report and rectify them
- recognising safety-related problems that may occur during mooring operations, and taking appropriate action to report and resolve these problems
- recording and reporting safety incidents and emergencies
- reporting and/or rectifying hazards, safety incidents or emergencies promptly
- responding to individual differences and applying acceptable behaviour when working with others
- working safely as a member of a mooring and unmooring team

- working systematically with required attention to detail and safety requirements.

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:

- dangers associated with mooring and unmooring duties:
 - ‘snap back’ in the event of a line breaking
 - back strain from carrying a line, heaving on a line
 - being hit by a line being thrown down from a vessel
 - being struck by a parting line
 - falling off the edge of the wharf into the water
 - mixing rings and wire rope
 - stepping inside the bight of a line
 - trip hazards such as crane lines
- hazards and safety-related problems that may occur during mooring operations, and appropriate preventative and remedial action and solutions
- individual differences and acceptable behaviour when working with others
- legal rights and responsibilities of management, crew and others
- methods for safely mooring and unmooring ocean-going vessels
- procedures for calculating stresses on lifting gear used in cargo handling operations
- relevant documentation and records:
 - instructions of relevant maritime authorities including:
 - Harbour Master Directions
 - Port Information guide
 - shore officers’ instructions
 - mooring and unmooring plans, procedures, checklists and instructions
 - relevant sections of maritime regulations concerning mooring operations
 - reports and records of safety incidents or emergencies
 - rope and equipment manufacturer instructions and procedures
 - safety instructions and procedures
- relevant port and vessel safety and security requirements and regulations
- relevant WHS/OHS legislation, codes of practice, policies and procedures
- reporting requirements for safety incidents or emergencies that occur during mooring operations
- safety drills and equipment used for lines launches
- safety instructions for using ropes and other equipment during mooring and unmooring operations
- safety management procedures for mooring and unmooring ocean-going vessels
- use, type and application of PPE required when undertaking mooring and unmooring

activities.

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, 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 legislation, regulations, codes of practice, workplace procedures and operational manuals
- tools, equipment, machinery, materials and personal protective equipment (PPE) currently used in industry including:
 - ropes and heaving lines provided by shore
 - shackles
 - wires.

Links

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