



Australian Government

MARC061 Conduct mooring operations using mechanical equipment

Release: 1

MARC061 Conduct mooring operations using mechanical equipment

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 conduct mooring operations using mechanical equipment.

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

C – Equipment operations

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare equipment for mooring operations

PERFORMANCE CRITERIA

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

- 1.1** Appropriate personal protective equipment (PPE) is selected and assembled in accordance with workplace procedures
- 1.2** Equipment is located, selected, and made ready in accordance with workplace procedures to achieve safe and

efficient operations

- 1.3** Routine pre-operational checks are carried out in accordance with manufacturer instructions and workplace procedures
 - 1.4** Non-operational equipment is tagged out, and reported to appropriate personnel
 - 1.5** Hazards are identified and control measures are applied in accordance with workplace procedures and reported
- 2 Operate mechanical mooring equipment**
 - 2.1** Equipment is operated in a safe and controlled manner within defined operating limits and in accordance with workplace procedures and manufacturer's instructions
 - 2.2** Equipment failure is identified, and action is taken and reported in accordance with workplace procedures (as required)
- 3 Complete equipment shut down**
 - 3.1** Equipment is shut down in accordance with manufacturer instructions and workplace procedures
 - 3.2** Defective, damaged, or malfunctioning equipment is tagged out, recorded, and reported in accordance with workplace procedures
 - 3.3** All required documentation is completed 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 not equivalent to MARC031 Shift mooring lines using mechanical means.

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 MARC061 Conduct mooring operations using mechanical equipment

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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:

- applying relevant work health and safety requirements and workplace procedures
- communicating with personnel involved in mooring operations
- following work instructions and safety procedures
- operating mechanical mooring equipment in accordance with manufactures instructions
- recognising hazards and risks associated with mooring equipment in accordance with workplace procedures.

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:

- factors that affect mooring equipment, including the effects of wind, weather, tides, sea conditions, currents, draft changes, and surges from passing vessels on mooring operations
- hazards and risks associated with mechanical mooring equipment including:
 - ‘snap back’ when a line breaks
 - line tension and load on line of mooring lines
 - loose personal wear
 - man, overboard or person falls in water
 - stepping inside the bight of a line
- operation, features, and application of mechanical mooring equipment including:
 - capstan
 - hydraulic mooring system
 - integrated capstans
 - magnetic mooring systems
 - quick release systems
 - shore tension system

- personal protective equipment (PPE) required for operation of mooring equipment
- relevant manufacturer instructions relating to use of machinery, including specifications on equipment capability and limitations
- types of berth and terminals where mechanical mooring and unmooring are applied
- types of mechanical mooring equipment and techniques for using equipment including safety requirements
- work health and safety requirements and workplace procedures
- workplace procedures including relevant documentation and records.

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, manufacturers specifications and operational manuals
- tools, equipment, machinery, materials, and personal protective equipment (PPE) currently used to conduct mooring operations which uses mechanical equipment

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