



Australian Government

MARC036 Operate deck machinery

Release: 2

MARC036 Operate deck machinery

Modification History

Release 2. This is the second release of this unit of competency in the MAR Maritime Training Package.

- Minor statement changes in unit Application
- Minor statement changes in Performance Evidence
- Minor statement changes in Knowledge Evidence
- Minor statement changes in Assessment Conditions.

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

Application

This unit involves the skills and knowledge required to safely use deck machinery on a vessel.

This unit applies to people working in the maritime industry in the capacity of:

- Marine Engine Driver Grade 1 Near Coastal
- Marine Engine Driver Grade 2 Near Coastal
- Marine Engine Driver Grade 3 Near Coastal

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Marine Engine Driver Grade 3 NC, Marine Engine Driver Grade 2 NC and a Marine Engine Driver Grade 1 NC as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA.

Pre-requisite Unit

Not Applicable.

Competency Field

C - Equipment Operations

Unit Sector

Not Applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare lifting equipment and deck machinery for use

- 1.1** Relevant personal protective equipment and machinery is selected, used and stored according to work health and safety (WHS)/occupational health and safety (OHS) requirements
- 1.2** Routine pre-operational checks are carried out on lifting equipment and deck machinery according to manufacturer specifications, regulatory and organisational requirements
- 1.3** Deviations from the norm are promptly identified and rectified
- 1.4** Adjustments are made to achieve a safe and efficient operation
- 1.5** Inability to start machinery is reported promptly and accurately to appropriate personnel

2 Operate lifting equipment and deck machinery

- 2.1** Machinery is operated in a safe and controlled manner
- 2.2** Machinery is operated within defined operating limits when running, to achieve optimum safety and efficiency
- 2.3** Deviations from normal operations are promptly identified
- 2.4** Action is taken to rectify basic operational faults to maintain optimum safety and efficiency
- 2.5** Appropriate action is taken in a malfunction or emergency

3 Check and complete lifting equipment and deck machinery

- 3.1** Equipment and machinery shutdown procedures are carried out according to manufacturer specifications and organisational procedures

operations

- 3.2** Equipment and machinery damage, malfunctions or irregular performance is recorded and reported according to organisational 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.

Unit Mapping Information

This unit replaces and is equivalent to MARC004 Operate deck machinery.

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 MARC036 Operate deck machinery

Modification History

Release 2. This is the second release of this unit of competency in the MAR Maritime Training Package.

- Minor statement changes in unit Application
- Minor statement changes in Performance Evidence
- Minor statement changes in Knowledge Evidence
- Minor statement changes in Assessment Conditions.

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements and safe work practices
- undertaking pre-operational checks including:
 - checking oils, lubricants and hydraulic lines
 - inspection of safety guards
 - operation of emergency stops
- using deck machinery safely including:
 - basic hydraulic system
 - capstans
 - electric or hydraulic winches or windlasses
 - lifting equipment.

Knowledge Evidence

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

- basic hydraulic systems and their operation
- capstans
- electric and hydraulic winches and windlasses
- legislation affecting lifting equipment
- lifting equipment and deck machinery
- machinery shutdown procedures

- manufacturer recommendations, regulations and vessel operating procedures
- operational techniques for specific location and weather conditions
- procedures and requirements for selecting and using appropriate machinery and equipment
- process for maintaining workloads within manufacturer specifications
- stability implications as it relates to lifting gear
- techniques for identifying basic faults, including:
 - failure of hydraulic lines
 - operational faults
 - structural failure
- watertight and or weather tight hatches
- WHS/OHS procedures, requirements and safe work practices.

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 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.

Practical assessment must occur in a workplace, or realistic simulated workplace, under the normal range of workplace conditions.

Simulations and scenarios may be used where situations cannot be provided in the workplace or may occur only rarely, in particular for situations relating to emergency procedures and adverse weather conditions where assessment would be unsafe, impractical or may lead to environmental damage.

Resources for assessment must include access to:

- applicable documentation, such as legislation, regulations, codes of practice, safety management system (SMS), workplace procedures and operational manuals
- a commercial vessel with inboard diesel propulsion power of greater than or equal to 150 kW or appropriate deck machinery ashore
- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) currently used in industry.

Links

Companion Volume Implementation Guides are found in VETNet -

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