



Australian Government

MARC036 Operate deck machinery

Release: 1

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Modification History

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:

- chief engineer on vessels with an inboard engine with propulsion power <1500 kW within the exclusive economic zone (EEZ) or
- second engineer on vessels with an inboard engine with propulsion power <3000 kW within the EEZ or
- chief or second engineer on a vessel with an outboard engine with unlimited propulsion power within the EEZ or
- assistant under direct supervision of a chief engineer and
- worker in the engine room on vessels <80 m in length with propulsion power <3000 kW.

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 defined in the National Standard for Commercial Vessels (NSCV) Part D. The AMSA mandated practical assessment (AMPA) is a requirement for AMSA certification as a Marine Engine Driver Grade 3 NC and Marine Engine Driver Grade 2 NC. The Australian Maritime Safety Authority (AMSA) mandated practical assessment (AMPA) will cover a range, but not all, of the requirements identified in the Performance Evidence and Knowledge Evidence. The AMPA shall be undertaken in accordance with its instructions.

Assessors of AMPA must hold as a minimum:

- a current certificate of competency issued under Marine Safety (Domestic Commercial Vessel) National Law Act 2012 at the same level as the qualification being assessed with at least 12 months' relevant sea service, or
- a relevant seafarer certificate, as master, engineer or deck officer, issued under the Navigation Act 2012.

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 lifting equipment and deck machinery for use

PERFORMANCE CRITERIA

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

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 operations

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