



Australian Government

MARC038 Operate main propulsion unit and auxiliary systems

Release: 2

MARC038 Operate main propulsion unit and auxiliary systems

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 operate the main propulsion unit and auxiliary systems on a vessel up to 12 metres in length.

This unit applies to people working in the maritime industry in the capacity of Coxswain Grade 1 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 Coxswain 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 propulsion unit and auxiliary system for use

- 1.1** Appropriate personal protective clothing and equipment is selected, used, maintained 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 equipment according to manufacturer specifications and workplace 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 up equipment is reported promptly and accurately to appropriate personnel

2 Operate propulsion unit and auxiliary system

- 2.1** Equipment is operated in a safe and controlled manner
- 2.2** Performance and efficiency of equipment is monitored according to manufacturer instructions
- 2.3** Equipment is maintained within defined operating limits when running, to achieve optimum safety and efficiency
- 2.4** Environmental implications associated with operating equipment are identified and controlled
- 2.5** Deviations from normal operations are promptly identified
- 2.6** Action is taken to rectify irregularities to maintain optimum safety and efficiency

3 Check and complete propulsion unit and auxiliary system operation

- 3.1** Equipment shutdown procedures are carried out according to manufacturer specifications and workplace procedures
- 3.2** Equipment operational records are maintained according to workplace procedures

- 3.3 Equipment damage, malfunctions or irregular performance are recorded and reported according to workplace procedures
- 3.4 Equipment is cleaned according to manufacturer specifications and 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.

Unit Mapping Information

This unit replaces and is equivalent to MARC006 Operate main propulsion unit and auxiliary systems.

Links

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