



Australian Government

MARB027 Perform basic servicing and maintenance of main propulsion unit and auxiliary systems

Release: 2

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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.

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 perform basic maintenance and servicing of main propulsion units and auxiliary systems.

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

- Coxswain Grade 1
- Coxswain Grade 2.

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

B – Equipment Checking and Maintenance

Unit Sector

Not Applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Prepare for work

- 1.1 Manufacturer equipment specifications are obtained
- 1.2 Safety requirements associated with maintaining equipment and workplace environment are implemented
- 1.3 Tasks are planned and sequenced in conjunction with others involved in or affected by maintenance work
- 1.4 Tools and equipment are selected and checked for serviceability
- 1.5 Work area is prepared

2 Carry out routine service

- 2.1 Equipment is inspected and inspection results are compared with manufacturer specifications
- 2.2 Servicing tasks are carried out to specifications
- 2.3 Mechanical equipment and system components are checked with appropriate instruments
- 2.4 Faulty items or components are identified and serviceability or unserviceability is determined
- 2.5 Unserviceable equipment is tagged according to workplace procedures

3 Repair or replace faulty components

- 3.1 Equipment is safely isolated according to regulations and/or work health and safety (WHS)/occupational health and safety (OHS) requirements
- 3.2 Faulty items or components are removed using appropriate tools and equipment according to workplace procedures
- 3.3 Replaceable items are selected or serviceable items are fitted according to manufacturer specifications
- 3.4 Adjustments are made to equipment or components to comply with specifications
- 3.5 Operational checks are carried out on system to ensure its compliance with manufacturer specification

- ## Foundation Skills

Range of Conditions

Unit Mapping Information

Links

Industry Skills Australia