



Australian Government

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

Release: 1

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

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 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 on vessels <12 m in length with propulsion power that is unlimited for an outboard engine or <500 kW for an inboard engine operating in inshore or designated waters or
- coxswain on tenders or auxiliary vessels <12 m in length operating within 3 nautical miles (nm) of a parent vessel within the exclusive economic zone (EEZ).

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 defined in the National Standard for Commercial Vessels (NSCV) Part D.

The AMSA mandated practical assessment (AMPA) is a requirement for AMSA certification.

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 the *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

B – Equipment Checking and Maintenance

Unit Sector

Not Applicable

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for work

PERFORMANCE CRITERIA

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

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

3.6 Maintenance report and logbooks are completed according to workplace procedures

4 Clean up

4.1 Work area is cleared and cleaned

4.2 Materials are disposed of or recycled according to legislative and workplace requirements

4.3 Tools and equipment are cleaned, checked and stored according to 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 MARB002 Perform basic servicing and maintenance of 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>