



Australian Government

MARB028 Service marine internal combustion engines and propulsion 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
- 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 perform basic servicing of marine internal combustion engines, and propulsion and auxiliary systems.

This unit of competency applies to people working in the maritime industry in the capacity of 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 Near Coastal 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.

1 Prepare for work

PERFORMANCE CRITERIA

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

- 1.1 Planned maintenance program is accessed to determine servicing requirements
- 1.2 Inspections are conducted and additional non-routine servicing requirements are determined
- 1.3 Manufacturer specifications for equipment are obtained
- 1.4 Tasks are planned and sequenced in conjunction with others involved in or affected by servicing work
- 1.5 Equipment is safely isolated according to regulations and work health and safety (WHS)/occupational health and safety (OHS) requirements
- 1.6 Tools and equipment are selected and checked for serviceability
- 1.7 Work area is prepared

2 Carry out routine service

- 2.1 Equipment is inspected throughout servicing 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 Unserviceable equipment is tagged according to workplace procedures and appropriate personnel are notified

3 Repair and replace faulty components

- 3.1 Faulty items or components are removed using appropriate tools and equipment according to workplace procedures
- 3.2 Replaceable items are selected or serviceable items are fitted according to manufacturer specifications
- 3.3 Adjustments are made to equipment or components to ensure compliance with specifications

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| | 3.4 | Operational check is carried out on system to ensure compliance with manufacturer specifications |
| 4 Clean up and complete documentation | 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 |
| | 4.4 | Maintenance report is completed 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 MARB003 Service marine internal combustion engines, and propulsion 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>