



Australian Government

MARC037 Operate inboard and outboard motors

Release: 2

MARC037 Operate inboard and outboard motors

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 clarifying statement change to PC1.4
- 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 operate inboard and outboard motors, and to diagnose basic faults.

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

- Coxswain Grade 1 Near Coastal
- Coxswain Grade 2 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 2 NC and 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 Operate inboard and outboard motors

- 1.1** Pre-start checks are performed on the motor
- 1.2** Fuel is checked to ensure there is adequate fuel, including a reserve, on board
- 1.3** Motor is started and stopped safely and correctly
- 1.4** Motor controls are used to manoeuvre an outboard or inboard vessel safely to complete work tasks
- 1.5** Motor is operated within safe limits during normal manoeuvres

2 Secure vessel on completion of work task

- 2.1** Vessel is moored safely
- 2.2** Fuel system is closed down
- 2.3** Vessel is secured
- 2.4** Fuel is stored to minimise environmental and fire hazards as appropriate
- 2.5** Unserviceable equipment is reported and tagged out as unserviceable

3 Maintain inboard and outboard motors

- 3.1** Fuel filters are drained of excess water
- 3.2** Batteries and connections are maintained to ensure reliable electrical supply to the motor
- 3.3** Engine and gearbox oil is checked and lubrication is applied
- 3.4** Engine mounting gear is checked as necessary

4 Identify basic inboard and outboard motor faults

- 4.1** Operating difficulties caused by fuel-related factors are identified
- 4.2** Electrical faults are identified, tagged out and reported

- 4.3** Motor propulsion faults are identified, tagged out and reported

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 MARC005 Operate inboard and outboard motors.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>