

Title	Install an outboard motor on a production trailer boat		
Level	4	Credits	8

Purpose	People credited with this unit standard are able to: confirm plan for installing an outboard motor; install motor ancillary and electrical components; and install an outboard motor on a production trailer boat.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

- 1 All required equipment must be setup, started up, operated, and shutdown in accordance with workplace policies and procedures.
- 2 All work practices must meet recognised codes of practice and documented worksite health and safety procedures (where these exceed code) for personal, product, and worksite health and safety, and must meet the obligations required by legislation.
- 3 Learners undertaking assessment against this unit standard are expected to comply with the following legislation and any subsequent amendments –
 - Health and Safety at Work Act 2015
 - Health and Safety in Employment Regulations 1995
 - Resource Management Act 1991
 - Hazardous Substances and New Organisms Act 1996.
- 4 Definitions

Job specifications refers to the standard requirements of the job being undertaken.

Manufacturer specifications – requirements specified by manufacturers of the motor and ancillary components. Manufacturer specifications must be followed in all instances to ensure compliance with manufacturer warranty, safe operation, and operation that meets manufacturer performance claims.

Workplace policies and procedures refers to the documented procedures and policies providing guidelines of the tasks and activities carried out in the workplace. This typically includes relevant health and safety requirements to eliminate hazard/ risk in the workplace.

Outcomes and performance criteria

Outcome 1

Confirm plan for installing an outboard motor.

Performance criteria

1.1 Planned installation is confirmed as compatible with boat features.

Range boat features – space, horsepower, vessel strength, transom height, propeller type.

Outcome 2

Install motor ancillary and electrical components.

Performance criteria

2.1 Motor ancillary components are installed in accordance with job specifications, manufacturer's specifications, and workplace policies and procedures.

Range motor ancillary components – dashboard gauges, cable conduit/s, tubing, steering wheel, control system, throttle control, gearshift control.

2.2 Electrical components are installed in accordance with workplace policies and procedures.

Range electrical components – wiring loom, battery box, tie downs, battery switch.

Outcome 3

Install an outboard motor on a production trailer boat.

Performance criteria

3.1 Components for an outboard motor install are prepared and connected in accordance with workplace policies and procedures.

Range outboard bolt holes, control cables, outboard electrical loom.

3.2 Outboard motor is installed in accordance with job specifications.

3.3 Completed installation is checked in accordance with job specifications.

3.4 Engine is tested and checked in accordance with job specifications and manufacturer's specifications.

3.5 Instruments are calibrated in accordance with specifications.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 October 2006	31 December 2018
Review	2	20 April 2017	N/A

Consent and Moderation Requirements (CMR) reference

0136

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the NZMAC ITO training@nzmarine.com if you wish to suggest changes to the content of this unit standard.