

Title	Diagnose and repair faults on four stroke marine engine		
Level	4	Credits	15

Purpose	People credited with this unit standard are able to diagnose and repair faults on four stroke marine engine.
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Classification	Motor Industry > Trailer Boat Systems
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Available grade	Achieved
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Guidance Information

- 1 All work practices must meet recognised codes of practice and workplace policies and procedures (where these exceed code) for personal, product, and workplace health and safety, and must meet the obligations required under the Health and Safety at Work Act 2015 and Resource Management Act 1991, and any subsequent amendments.
- 2 **Definitions**
Service information refers to technical information of boat or product detailing: operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; or illustrations.
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 manage risk in the workplace.
- 3 **Range**
 marine engine – petrol and diesel; inboard or outboard.

Outcomes and performance criteria

Outcome 1

Check a four stroke marine engine and diagnose faults.

Performance criteria

- 1.1 Faults on a four stroke marine engine are identified through diagnosis in accordance with service information.

Range	diagnosis includes – engine temperature check, compression test, engine leakdown test, ignition timing test, lube system check, engine performance running test.
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- 1.2 Air ventilation in an inboard marine engine is checked in accordance with service information.
- 1.3 Noise level in an inboard marine engine is checked in accordance with service information.
- 1.4 Outboard marine engine is checked and tested in accordance with service information.
- 1.5 Outcome and diagnosis are recorded in accordance with workplace policies and procedures.

Outcome 2

Repair faults on a four stroke marine engine.

Performance criteria

- 3.1 Faults on a four stroke marine engine are repaired in accordance with service information.
- 3.2 Completed repairs are checked and tested, and remedial action is taken if required to ensure service information is met.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 July 2018	N/A

Consent and Moderation Requirements (CMR) reference	0136
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the NZ Marine and Composites Industry Training Organisation training@nzmarine.com if you wish to suggest changes to the content of this unit standard.