

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

Purpose	People credited with this unit standard are able to: check a four stroke marine engine and diagnose faults; and repair faults on a 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 Legislation, regulations, references and/or industry standards relevant to this unit standard include but are not limited to the:

- [Health and Safety at Work Act 2015](#)
- [Resource Management Act 1991](#)

Any new, amended or replacement Acts, regulations, rules, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

- 2 Definitions

Manufacturers' specifications refer to technical information of boat or product detailing: operation, installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; or illustrations. Manufacturers' 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 refer to the documented procedures and policies providing guidelines for the tasks and activities carried out in the workplace. This typically includes relevant health and safety requirements to manage hazards and/or risks in the workplace.

- 3 Assessment information

Range

Marine engine – petrol and diesel; inboard or outboard.

Assessment for this unit standard must include four different engine repairs.

Evidence presented for assessment against this unit standard must be in accordance with manufacturers' specifications and workplace policies and procedures.

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.
- Range diagnosis may include – engine temperature check, compression test, engine leak down test, ignition timing test, lube system check, engine performance running test, abnormal noise, intake system.
- 1.2 Cause of fault is identified.
- 1.3 Outcome and diagnosis are recorded.

Outcome 2

Repair faults on a four stroke marine engine.

Performance criteria

- 2.1 Faults on a four stroke marine engine are repaired.
- 2.2 Completed repairs are checked and tested.

Planned review date	31 December 2030
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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	31 December 2027
Review	2	29 May 2025	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 Hanga-Aro-Rau Engineering, Manufacturing and Logistics Workforce Development Council at qualifications@hangaarorau.nz if you wish to suggest changes to this skill standard.