

Title	Inspect and test a four stroke petrol marine engine		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to perform a visual inspection of a four stroke petrol marine engine and perform tests on a four stroke petrol 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

- 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.
- Definitions

Manufacturers' specifications refer to technical information of boat or product detailing: operation, installation and servicing procedures; technical terms and descriptions; or illustrations. Manufacturers' specifications must be followed 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.
- Assessment Information

Range

Four stroke petrol marine engine – inboard or outboard.

Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with manufacturers' specifications, workplace procedures and legislative requirements.

Outcomes and performance criteria

Outcome 1

Perform a visual inspection of a four stroke petrol marine engine.

Performance criteria

1.1 Visual inspection of a four stroke petrol marine engine is carried out.

Range inspection includes – fuel and oil system leaks, fuel and oil hoses, corroded connectors, check air cleaner and duct, check lube system, spark, cooling system leaks, drive belts.

Outcome 2

Perform tests on a four stroke petrol marine engine.

Performance criteria

2.1 Testing on a four stroke petrol marine engine is carried out.

Range system testing may include – compression test, cylinder leakage test, ignition system, exhaust system, crankcase pressure, fuel pump pressure, fuel system vacuum test, engine control systems (remotes, gauges, wire harnesses), operating temperature; evidence of six system tests must be provided.

2.2 Test reports are prepared.

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.