

Title	Inspect, diagnose, and repair a two stroke marine engine		
Level	4	Credits	6

Purpose	People credited with this unit standard are able to inspect, diagnose, and repair faults in a two 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 a 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.

Outcomes and performance criteria

Outcome 1

Inspect and diagnose faults in a two stroke marine engine.

Performance criteria

- 1.1 Visual inspection is carried out prior to testing in accordance with service information.

 Range fuel-oil leaks, vacuum hose disconnection or split, corroded connectors, check air cleaner and duct, check lube system, spark, fuel pump pressure.
- 1.2 Engine operating temperature is tested in accordance with the service information.

- 1.3 Operating engine parts are tested in accordance with service information.
- Range testing include – battery test, spark plugs, compression test, cylinder leakage test, power valve operations, ignition timing, exhaust system, crankcase pressure, fuel pump pressure, fuel system vacuum test.
- 1.4 Outcome and diagnosis are recorded in accordance with workplace policies and procedures.

Outcome 2

Repair faults in a two stroke marine engine.

Performance criteria

- 2.1 Faults in two stroke marine engine systems are repaired in accordance with service information.
- Range include – ignition system, exhaust system, fuel pump, fuel system, gaskets and seals, batteries.
- 2.2 Completed repairs are checked and tested, and any 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.