

Title	Inspect and test air intake and exhaust systems of a marine diesel engine		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to inspect and test an air intake system, and an exhaust system of a marine diesel engine.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

- 1 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 under the Health and Safety at Work Act 2015, and any subsequent amendments.
- 2 Definitions

Induction system refers to air cleaner and housing, solid and flexible-duct tubing, connectors.

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 eliminate hazard/risk in the workplace.
- 3 Range

marine diesel engine – one of two stroke or four stroke.

Outcomes and performance criteria

Outcome 1

Inspect and test an air intake system of a marine diesel engine.

Performance criteria

- 1.1 Components of an air intake system are inspected and tested in accordance with service information and workplace policies and procedures.

Range intake manifolds, throttle body, induction system.

- 1.2 Test results are documented and recommendations are made in accordance with service information and workplace policies and procedures.

Outcome 2

Inspect and test an exhaust system of a marine diesel engine.

Performance criteria

- 2.1 Exhaust system components are inspected and tested in accordance with service information and workplace policies and procedures.

Range components include – water lock, exhaust manifold, engine pipe, catalytic converter, intermediate pipe, exhaust brackets.

- 2.2 Test results are documented and recommendations are made in accordance with service information and workplace policies and procedures.

Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	14 December 2017	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.