

Title	Maintain and repair marine engine systems		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: identify maintenance and repair requirements for marine engine systems; carry out maintenance and repairs for marine engine systems.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

1 Definitions

Job specifications refers to the standard requirements of the job being undertaken.

Maintenance refers to the activities undertaken to sustain operational integrity of an asset or resource and prevent failure.

Marine engine systems refers to marine cooling systems, power plant, marine exhaust systems, and marine fuel systems.

Repair refers to rectification of faulty components in order to restore operational integrity.

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 policies to manage risk in the workplace.

2 Range

power plants – diesel and petrol.

3 All required equipment must be set up, started up, operated, and shut down in accordance with workplace policies and procedures.

4 All work practices must meet recognised codes of practice and documented policies and procedures for personal, product, and worksite 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.

Outcomes and performance criteria

Outcome 1

Identify maintenance and repair requirements for marine engine systems.

Performance criteria

- 1.1 Maintenance and repair requirements are identified in accordance with job specifications.
- Range maintenance schedules, type and amount of repair.
- 1.2 Marine engine systems are inspected in accordance with manufacturer's instructions and job specifications.
- 1.3 Maintenance and repair requirements are confirmed in accordance with manufacturer's instructions and job specifications.

Outcome 2

Carry out maintenance and repairs for marine engine systems.

Performance criteria

- 2.1 Maintenance activities are carried out in accordance with manufacturer's instructions and job specifications.
- 2.2 Maintenance and repair methods are selected and carried out in accordance with manufacturer's instructions and job specifications.
- Range may include – removal, replacement, adjustment, resurfacing, machining, refurbishment.
- 2.3 Completed maintenance and repair work of marine engine systems is checked and tested in accordance with workplace policies and procedures.
- 2.4 Re-commissioning is carried out to achieve operational status and remedial action is taken if required to ensure job specifications are met.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 August 1997	31 December 2021
Revision	2	20 March 2001	31 December 2021
Revision	3	16 April 2004	31 December 2021
Rollover and Revision	4	20 March 2009	31 December 2021
Review	5	25 July 2019	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 ITO training@nzmarine.com if you wish to suggest changes to the content of this unit standard.