

Title	Explain, install, and test fuel systems in boats		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to explain, install, and test fuel systems in boats.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

- 1 All required equipment must be set up, started up, operated, and shut down in accordance with workplace policies and procedures.
- 2 All work practices must meet recognised codes of practice and documented workplace 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.
- 3 Definitions
Job specifications refers to the standard requirements of the job being undertaken.
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.

Outcomes and performance criteria

Outcome 1

Explain the fuel systems used in boats.

Range fuel systems – diesel and petrol.

Performance criteria

- 1.1 Fuel systems are explained in terms of system type.
- 1.2 Pipework, hose types, and connection systems are explained in terms of fuel type.
- 1.3 Fittings are explained in terms of their applications and installation methods for the system type.

- 1.4 System testing processes are explained in accordance with job and manufacturer's specifications.

Outcome 2

Prepare materials and tools to install fuel systems in boats.

Performance criteria

- 2.1 Materials and tools are prepared in accordance with job specifications.
- 2.2 Fittings and accessories are prepared in accordance with job specifications.
- 2.3 Types of joints are matched with materials in accordance with job specifications.

Outcome 3

Install and test fuel systems in boats.

Range fuel system – diesel or petrol;
fuel system components may include – valves, filters, pumps, tanks, deck fill, drains, vents.

Performance criteria

- 3.1 Fuel pipework is cut, bent, fabricated, joined, and sealed in accordance with job specifications.
- 3.2 The fuel system is installed in accordance with job specifications.
- 3.3 Completed installation is checked and tested for leaks, and remedial action is taken if required to ensure job specifications are met.

Replacement information	This unit standard replaced unit standard 25115.
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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	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.