

Title	Demonstrate knowledge of petrol and an electronic fuel injection (EFI) system for a marine engine		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to demonstrate knowledge of: petrol as a marine fuel; an electronic fuel injection (EFI) system operation for a marine engine; and procedures on fuel system checking and testing requirements.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

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 policies to manage risk in the workplace.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of petrol as a marine fuel.

Performance criteria

1.1 Types of petrol are explained in terms of octane rating and their suitability for different compression ratios.

Range evidence of two types of petrol fuel is required.

1.2 Types of petrol are described in terms of suitability for marine use.

Outcome 2

Demonstrate knowledge of an EFI system operation for a marine engine.

Performance criteria

2.1 Components of an EFI system for a marine engine are identified.

2.2 Operating principles of an EFI system are described.

Range indirect injection, direct injection.

Outcome 3

Demonstrate knowledge of procedures on fuel system checking and testing requirements.

Range fuel system - vacuum, pressure, fuel tank vent, fuel tank breather, fuel lines, primary fuel filter.

Performance criteria

3.1 Fuel system checking procedures are described in accordance with service information and workplace policies and procedures.

3.2 Fuel system testing requirements are explained in accordance with workplace policies and procedures.

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Status information and last date for assessment for superseded versions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.