Title	Demonstrate knowledge of	of an electronic	fuel injection (EFI) system
Level	3	Credits	2

	This unit standard is for people who wish to enter or are currently employed in the motor industry. People credited with this unit standard are able to demonstrate knowledge of: petrol as an automotive fuel; petrol combustion; and EFI operation.
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Classification	Motor Industry > Automotive Fuel Systems and Exhaust
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Available grade	Achieved
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Guidance Information

Legislation relevant to this unit standard includes but is not limited to the Health and Safety at Work Act 2015 and any subsequent amendments or replacements.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of petrol as an automotive fuel.

Performance criteria

1.1 The main grades of petrol and ethanol blends that are commercially available in New Zealand are identified in terms of octane rating.

Outcome 2

Demonstrate knowledge of petrol combustion.

Performance criteria

2.1 Air-fuel mixture ratios and their effect on the engine are described.

Range stoichiometric fuel mixture, lean air-fuel mixture, rich air-fuel

mixture.

2.2 Combustion within the engine is described.

Range normal combustion, abnormal combustion; detonation, pre-

ignition.

NZQA unit standard

Outcome 3

Demonstrate knowledge of EFI operation.

Performance criteria

- 3.1 The operating principles of an EFI system are described.
- 3.2 Components of an EFI system are identified.
- 3.3 Safety precautions necessary when working on an EFI system are described.

Replacement information This unit standard replaced unit standard 240 and standard 5459.	unit b
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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Status information and last date for assessment for superseded versions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	17 August 2017	N/A

Consent and Moderation Requirements (CMR) reference 0014
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This CMR can be accessed at http://www.nzga.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.