

<b>Title</b>	<b>Demonstrate knowledge of vehicle emissions</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	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: vehicle emissions; and vehicle emission control systems.
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<b>Classification</b>	Motor Industry > Automotive Fuel Systems and Exhaust
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to – Environment Act 1986; Ozone Layer Protection Act 1996; Resource Management Act 1991; Land Transport Rule: Vehicle Exhaust Emissions 2007, Rule 33001/8; Health and Safety at Work Act 2015; and any subsequent amendments or replacements.
- 2 Land Transport Rules are produced for the Minister of Transport by the New Zealand Transport Agency. These rules are available online at <https://www.nzta.govt.nz/resources/rules/>.
- 3 Definition  
*International emission standards* are those standards adopted by various standard-setting bodies or countries which may be referred to in legislation.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of vehicle emissions.

#### Performance criteria

- 1.1 Health and environmental risks that emissions pose are described.
- 1.2 Harmful vehicle emissions are identified.  
  
Range carbon monoxide (CO), hydrocarbons (HC), oxides of nitrogen (NO<sub>x</sub>), carbon dioxide (CO<sub>2</sub>), particulates.

#### Outcome 2

Demonstrate knowledge of vehicle emission control systems.

**Performance criteria**

2.1 The operating principles of emission control systems are described.

Range Evaporative emissions (EVAP), exhaust gas recirculation (EGR), positive crankcase ventilation (PCV), catalytic converter, diesel particulate filter (DPF), selected catalyst reduction (SCR).

<b>Replacement information</b>	This unit standard replaced unit standard 5461.
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<b>Planned review date</b>	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**Status information and last date for assessment for superseded versions**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

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
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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 MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.