

<b>Title</b>	<b>Demonstrate knowledge of diagnosing automotive emission control system faults</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of diagnosing automotive emission control system faults.
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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 It is recommended that people hold credit for Unit 30885, *Demonstrate knowledge of automotive diagnostic and repair procedures* and Unit 30435, *Demonstrate knowledge of vehicle emissions*, before being assessed against this unit standard.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 4 **Definitions**  
*Company requirements* refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.  
*Service information* may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.
- 5 Machines may include: forklifts, earth moving equipment, grader equipment, loaders, dozers, tractors, agricultural equipment, dump trucks, prime movers; electric machines including – forklift, walk-behind pallet, ride-on pallet, reach truck, order picker, counterbalance truck, turret truck.
- 6 This unit standard can be assessed on either a petrol or diesel engine.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of diagnosing automotive emission control system faults.

### Performance criteria

1.1 Methods of diagnosing emission control system faults are described.

Range may include – catalytic converter, diesel oxidiser catalyst (DOC), narrow band and wide band oxygen sensors, fuel trim, crankcase ventilation (positive or closed), diesel particulate filter (DPF), evaporative emissions (EVAP), exhaust gas recirculation (EGR), selective catalyst reduction (SCR), visible smoke test, exhaust gas emission testing.

<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	1 March 2018	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.