

Title	Diagnose and repair automotive emission control system faults		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to diagnose and repair automotive emission control system faults.
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Classification	Motor Industry > Automotive Electrical and Electronics
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Available grade	Achieved
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Guidance Information

- 1 It is recommended that people hold credit for Unit 31057, *Demonstrate knowledge of diagnosing automotive emission control system faults* 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.

Outcomes and performance criteria

Outcome 1

Diagnose and repair automotive emission control system faults.

Performance criteria

1.1 Emission control system faults are diagnosed.

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; evidence of three different system faults is required.

1.2 Emission control system faults are repaired.

Replacement information	This unit standard replaced unit standard 893.
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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	1 March 2018	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.