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| Title | Demonstrate knowledge of automotive diagnostic and repair procedures | | |
| Level | 3 | Credits | 5 |

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| Purpose | People credited with this unit standard are able to demonstrate knowledge of: diagnostic and repair procedures; on-board diagnostics (OBD); and controller area networking (CAN). |
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| Classification | Motor Industry > Automotive Preventive Maintenance |
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| Available grade | Achieved |
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Guidance Information

- 1 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 requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 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.
- 3 Definitions
Company requirements refers 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.
- 4 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of diagnostic and repair procedures.

Performance criteria

- 1.1 A systematic diagnostic procedure is described.
- 1.2 The importance of following a systematic diagnostic procedure is described.
- 1.3 The importance of following correct repair procedures is described.

Outcome 2

Demonstrate knowledge of OBD.

Performance criteria

- 2.1 Reasons OBD is used are described.
- 2.2 Operating principles of OBD are described.

Outcome 3

Demonstrate knowledge of CAN.

Performance criteria

- 3.1 Reasons CAN is used are described.
- 3.2 Operating principles of CAN are described.

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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 | 25 January 2018 | N/A |

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| 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.