Title	Describe automotive electronic components, actuators, sensors and signals		
Level	3	Credits	5

PurposePeople credited with this unit standard are able to describe automotive electronic components, actuators, sensors and signals.	
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Classification	Motor Industry > Automotive Electrical and Electronics	
Available grade	Achieved	

Guidance Information

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 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.

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

Describe electronic components.

Performance criteria

1.1 Electronic components are described.

Range electronic control module, integrated circuits.

Outcome 2

Describe electronic signals.

Performance criteria

2.1 Electronic signals are described.

Range digital, analogue, frequency, amplitude, pulse width modulation.

Outcome 3

Describe types of sensors.

Performance criteria

3.1 Sensor types are described.

Range chemical content, fluid level, position, pressure, speed, temperature.

Outcome 4

Describe types of actuators.

Performance criteria

4.1 Actuator types are described.

Range motors, stepper motors, solenoids, relays.

Planned review date	31 December 2022	

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2018	N/A

Consent and Moderation Requirements (CMR) reference	0014	

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 <u>info@mito.org.nz</u> if you wish to suggest changes to the content of this unit standard.