

Title	Describe the operation of vehicle electronic braking systems		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to describe the operation of vehicle electronic braking systems and system diagnosis.
----------------	--

Classification	Motor Industry > Automotive Electrical and Electronics
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 It is recommended that people hold credit for Unit 30885, *Demonstrate knowledge of automotive diagnostic and repair procedures* and Unit 30568, *Demonstrate knowledge of brake systems* 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 may include the current version of the Health and Safety at Work Act 2015; Land Transport Rule: Light-vehicle Brakes 2002, Rule 32014; Land Transport Rule: Vehicle Repair 1998, Rule 34001 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 *ABS, TCS, ESC and EBD* refer to anti-lock braking systems, traction control systems, electronic stability control, and electronic brake-force distribution respectively.

Outcomes and performance criteria**Outcome 1**

Describe the operation of vehicle electronic braking systems.

Range may include – ABS, TCS, ESC, EBD, park brake.

Performance criteria

1.1 Electronic braking system components are described.

1.2 Electronic braking system operation is described.

Outcome 2

Demonstrate knowledge of vehicle electronic braking system diagnosis.

Range may include – ABS, TCS, ESC, EBD, park brake.

Performance criteria

2.1 Electronic braking system diagnosis is described.

Replacement information	This unit standard replaced unit standard 24141.
--------------------------------	--

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	1 March 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 info@mito.org.nz if you wish to suggest changes to the content of this unit standard.