

Title	Describe heavy vehicle braking systems		
Level	4	Credits	8

Purpose	People credited with this unit standard are able to describe heavy vehicle pneumatic braking systems, and heavy vehicle electronic braking systems.
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Classification	Motor Industry > Vehicle Braking Systems
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Available grade	Achieved
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Guidance Information

- 1 It is recommended that people hold credit for 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, company requirements 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 or replacements.
- 4 **Definitions**
ABS, TCS, ESC and EBD refer to anti-lock braking systems, traction control systems, electronic stability control, and electronic brake-force distribution respectively.
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.
Heavy vehicle may include – a motor vehicle that is of Class MD3, MD4, ME, NB, NC, TC or TD; or has a gross vehicle mass that exceeds 3500 kg and is not of a class specified in the Table of vehicle classes as listed from New Zealand Transport Agency website <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/#Registration-classification>.
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.

Outcomes and performance criteria

Outcome 1

Describe heavy vehicle pneumatic braking systems.

Performance criteria

- 1.1 Pneumatic braking system operation is described.
 Range circuits, friction material, trailer brakes; couplings, valves.
- 1.2 Methods of diagnosing pneumatic braking system faults are described.

Outcome 2

Describe heavy vehicle electronic braking systems.

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

Performance criteria

- 2.1 Electronic braking system components are identified.
- 2.2 Electronic braking system operation is described.
- 2.3 Methods of diagnosing electronic braking system faults are described.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 July 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.