

Title	Test and repair hydraulic brake system components on heavy vehicles or machines		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: test hydraulic brake systems on heavy vehicles or machines; and repair hydraulic brake system components.
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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 24420, *Demonstrate knowledge of hydraulic brakes and testing hydraulic brakes on heavy vehicles or machines* 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 requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Vehicle Inspection Requirements Manual (VIRM) In-service Certification;
Land Transport Rule: Heavy Vehicle Brakes 2006;
Land Transport Rule: Heavy Vehicles 2004;
Land Transport Rule: Vehicle Standards Compliance 2002.
- 4 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 5 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.
Heavy Vehicle refers to classes MD3, MD4, ME, NB, TC and TD as specified in the Vehicle equipment standards classifications at <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/>; or has a gross vehicle mass that exceeds 3500kg and is not of a class specified in the Vehicle equipment standards classifications.

Service information refers to information such as technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations. *Suitable tools and equipment* refer to industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

- 6 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Test hydraulic brake systems on heavy vehicles or machines.

Performance criteria

- 1.1 Hydraulic brake system is tested.
- 1.2 Any remedial work necessary to correct deficiencies is identified and a recommendation report given to the supervisor.

Outcome 2

Repair hydraulic brake system components.

Performance criteria

- 2.1 Brake lines are repaired or replaced.
- Range may include – hydraulic brake pipe, pneumatic brake pipe.
- 2.2 Hydraulic brake system components are repaired.
- Range may include – foot valve, master cylinder, wheel cylinder, brake calliper.

Replacement information	This unit standard and unit standard 24420 replaced unit standard 15478.
Planned review date	31 December 2025

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2008	31 December 2022
Review	2	29 July 2021	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.