

Title	Diagnose and rectify brake system faults on ride-on outdoor powered equipment		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: locate faulty brake system parts on ride-on equipment; and rectify braking system faults on ride-on equipment.
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Classification	Motor Industry > Vehicle Braking Systems
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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 Performance of the outcomes of this unit standard must comply with the following: Health and Safety at Work Act 2015.
- 3 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.
- 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 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.
- 5 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

Locate faulty brake system parts on ride-on equipment.

Performance criteria

- 1.1 The hydraulic brake components are inspected in situ, and any signs of leaks and damage noted.
- Range fluid level and colour, damaged and corroded pipes, damaged and perished hoses, leaking cylinders and valves.
- 1.2 The brake rods and cables are inspected, and any damage noted.
- Range damaged cable, bent rod, damaged thread, worn pins and yokes, adjustment.
- 1.3 The brake shoes, pads, springs, backplates, drums, and discs are inspected, and any faults noted.
- Range wear, scoring, runout, distortion, grease and brake fluid on friction linings, embedded foreign material.
- 1.4 Hydraulic cylinders are removed, disassembled, and inspected, and any faults noted.
- Range wear, scoring, corrosion, damage.

Outcome 2

Rectify braking system faults on ride-on equipment.

Performance criteria

- 2.1 The hydraulic cylinders are repaired and assembled or replaced.
- 2.2 Faulty brake pipes and hoses are replaced.
- 2.3 Faulty brake rods, pins, and yokes are replaced.
- 2.4 A replacement brake cable is fitted to restore full serviceability.
- 2.5 Disc and drum brake units are assembled.
- 2.6 The brake shoes, pedal, and lever travel are adjusted.
- 2.7 The brake system is retested, to ensure no faults remain.
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Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 February 1999	31 December 2022
Revision	2	16 April 2003	31 December 2022
Review	3	25 January 2008	31 December 2022
Review	4	29 July 2021	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.