

<b>Title</b>	<b>Demonstrate knowledge of brake lining friction materials</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of brake lining friction materials.
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<b>Classification</b>	Motor Industry > Vehicle Braking Systems
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<b>Available grade</b>	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;  
Land Transport Rule: Heavy Vehicle Brakes 2006;  
Land Transport Rule: Heavy Vehicles 2004;  
Land Transport Rule: Vehicle Standards Compliance 2002.
- 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.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of brake lining friction materials.

**Performance criteria**

- 1.1 The characteristics of a friction material are identified in relation to brake linings.
- Range friction co-efficient value, friction co-efficient resistance to temperature, wear rate, friction surface damage, temperature resistant material, noise factor.
- 1.2 The categories of brake lining materials are described.
- Range organic materials, metallic materials, semi-metallic materials.
- 1.3 The way in which brake lining materials are identified is described.
- Range edge code – friction identification, compound identification, manufacturer identification.
- 1.4 The capabilities of lining materials are described.
- Range fade resistance, recovery, delayed fade, stability, wet friction.
- 1.5 The precautions for handling brake linings are described.
- Range contamination from grease and oil, precautions against inhaling brake dust.
- 1.6 Methods and procedure of fixing linings to shoes and pads are identified.

<b>Replacement information</b>	This unit standard and unit standard 24406 replaced unit standard 937. This unit standard, unit standard 24418, and unit standard 24419 replaced unit standard 15475.
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<b>Planned review date</b>	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	25 January 2008	31 December 2022
Review	2	29 July 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**Comments on this unit standard**

Please contact MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.