

<b>Title</b>	<b>Demonstrate knowledge of common heavy vehicle or machine tyres and wheels</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of common heavy vehicle or machine tyres and wheels.
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<b>Classification</b>	Motor Industry > Tyres
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 It is recommended that people hold credit for Unit 30567, *Demonstrate knowledge of automotive tyres and wheels* 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; *Vehicle Inspection Requirements Manual (VIRM) In-service Certification*, Section 10 Tyres, wheels and hubs; and any subsequent amendments or replacements.
- 4 **Definitions**  
*Company requirements* refers 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>.  
*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.  
*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 This unit standard is not intended for the specialist tyre fitting and repair industry. Unit standards 24461 and 24463 should be used for this context.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of common heavy vehicle or machine tyres.

#### Performance criteria

- 1.1 Types of tyres are identified.

Range pneumatic, resilient, solid; drive, steer; electrically conducting, oil resistant, antistatic, non-marking, turf, flotation, compaction; soil, refuse, roading.

- 1.2 Tyre maintenance is described.

Range inflation pressure, damage, abnormal wear pattern, ballast; water, freeze protection, water valve.

- 1.3 Tyre pressure monitoring and inflation systems are described.

Range central tyre inflation system, tyre pressure monitoring system.

### Outcome 2

Demonstrate knowledge of common heavy vehicle or machine wheels.

#### Performance criteria

- 2.1 Types of wheels are identified.

Range solid tyre, single wheel, dual wheel, power adjusted, split rim; bolted, locking ring.

- 2.2 Removing and replacing wheels are described.

Range explosive energy, tyre or wheel damage, fitting wheel.

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<b>Planned review date</b>	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

<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.