

Title	Demonstrate knowledge of automotive tyres and wheels		
Level	3	Credits	3

Purpose	This unit standard is for people who wish to enter or are employed in the motor industry. People credited with this unit standard are able to demonstrate knowledge of automotive tyres and wheels.
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Classification	Motor Industry > Tyres
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Available grade	Achieved
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Guidance Information

- 1 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; *Health and Safety Guidelines for Tyre Fitters* (Wellington: Occupational Safety and Health Service, Department of Labour, 2001), and any subsequent amendments and replacements.
- 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 and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 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.
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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of tyres.

Performance criteria

1.1 Tyre types are identified.

Range may include – tubed, tubeless, cross ply, radial ply, fabric and steel belted, run-flat, space saver.

1.2 Tyre side wall markings are described.

Range load rating, speed rating, date of manufacture, size, manufacturer, tyre type, maximum inflation pressure.

1.3 Tyre faults are identified.

Range may include – cuts; exposed, worn, and damaged cords; bulges in side wall; repairs; separations.

1.4 Tyre tread types are identified.

Range may include – steering, driving, directional, asymmetric.

1.5 Tyre wear patterns are identified and causes of abnormal wear is described.

Range normal, under inflation, over inflation, incorrect wheel alignment, tyre size, tyre out of balance.

Outcome 2

Demonstrate knowledge of wheels.

Performance criteria

2.1 Wheel types and sizes are identified.

Range one piece, multi-piece; split rim.

2.2 Repair restrictions to wheels are identified.

2.3 Correct fitting of wheels to vehicles or machines is described.

Replacement information	This unit standard replaced unit standard 24457.
Planned review date	31 December 2022

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	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.