

Title	Remove and refit wheels from tractors and agricultural machinery		
Level	3	Credits	2

Purpose	People credited with this unit standard are able to remove wheels from, and refit wheels to, tractor and agricultural machinery.
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Classification	Motor Industry > Tyres
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Available grade	Achieved
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Guidance Information

- 1 It is recommended that people hold credit for Unit 24459, *Demonstrate knowledge of tractor and agricultural machinery 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, 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;
Land Transport Rule: Tyres and Wheels 2001.
- 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
Agricultural machinery refers to any machine or equipment used in maintenance, harvesting and cultivation on farms. These include but are not limited to – tractors, ploughs and tillers, graders, post rammers, weed control implements, hay mowers, hay balers, feed-out wagons, harvesters, combine harvesters.
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.

Outcomes and performance criteria

Outcome 1

Remove wheels from tractor and agricultural machinery.

Range single wheels, dual wheels.

Performance criteria

1.1 Wheel type is identified to enable the manufacturer's removal procedures to be followed.

1.2 The tractor and agricultural machinery are raised and secured, to enable the wheels to be removed.

Range may include – ensuring load capacity of jack is sufficient for the lift, jacking carried out on hard even surface, park brake applied, jacking point on a load bearing structure that will support the weight of the tractor or agricultural machinery, axle stands of sufficient load capacity and secure.

1.3 The wheels are removed from the tractor and agricultural machinery without damage to the wheel retaining threads.

Range may include – valve core removed and tyres deflated before attempting to remove from the tractor or agricultural machinery, visual inspection of tyre and wheel condition before wheel nuts are loosened, nuts loosened diagonally with tractor or agricultural machinery on the ground, wheels removed without risk of personal injury.

Outcome 2

Refit wheels to tractor and agricultural machinery.

Range single wheels, dual wheels.

Performance criteria

2.1 Wheels to be fitted are compatible to the tractor or agricultural machinery application.

Range may include – spacers, inner and outer nuts, location lugs, tyre type and size, tyre condition, load capacity.

- 2.2 The wheels are fitted to the tractor or agricultural machinery without damage to components in accordance with service information.

Range may include – wheels lifted without risk of personal injury, nuts tightened diagonally and torqued to tractor or agricultural machinery manufacturer specifications, tractor or agricultural machinery lowered to the ground and rendered safe, inflation pressure to tractor or agricultural machinery manufacturer specifications for pneumatic tyres.

Replacement information	This unit standard and unit standard 24459 replaced unit standard 5440.
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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	25 January 2008	31 December 2022
Review	2	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.