

Title	Prepare to repair, and repair punctures in tubes and tubeless tyres on light vehicles		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to prepare to repair, and repair, a puncture in a tube and in a tubeless tyre from a light vehicle.
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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 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, 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;
Vehicle Inspection Requirements Manual (VIRM) In-service Certification;
Land Transport Rule: Tyres and Wheels 2001;
New Zealand Standard NZS 5423:1996 Specification for repairing and retreading car, truck and bus tyres;
New Zealand Standard NZS 5453:1989 New tyres for passenger vehicles.
- 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
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.
Light vehicle refers to classes MA, MB, MC, MD, MD1, MD2 and NA as specified in the Vehicle equipment standards classifications at <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/>.

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.

6 Range

This unit standard includes puncture repairs by patches and plugs to the tyre without the application of heat using chemical and adhesive solutions, patches and plugs vulcanised in place by the application of localised heat with a spot vulcaniser, tubes repaired with a cold vulcanising repair kit.

7 For repairs to heavy vehicle tyres, refer to Unit 11739, *Repair and refit heavy vehicle tyres*.

Outcomes and performance criteria

Outcome 1

Prepare to repair a puncture in a tube and in a tubeless tyre from a light vehicle.

Performance criteria

1.1 Tyre is demounted from wheel.

1.2 The tyre and tube are inspected, and its condition and suitability for repair determined.

Range may include – pressure loss; tyre wear; tyre impact damage; casing failure; cuts; exposed, worn and damaged cords; bulges in side wall; repairs; separations; zipper; beading damage; valve and tube damage; compliance with the VIRM.

1.3 The wheel is inspected, and its condition determined.

Range wheel shape, accident damage, cracks, holes, faulty welds, kerb damage, rusting, compliance with the VIRM.

Outcome 2

Repair a puncture in a tube and tubeless tyre from a light vehicle.

Performance criteria

2.1 The puncture is repaired in accordance with tyre manufacturer and puncture repair kit instructions, depending on the type of tyre, and size and location of the puncture.

2.2 The size and type of replacement tyres and tubes are selected.

2.3 Tyre and tube is assembled on the wheel and inflated and tested as necessary.

Replacement information	This unit standard and unit standard 24457 replaced unit standard 916 and unit standard 9074.
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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.