<table>
<thead>
<tr>
<th>Title</th>
<th>Repair punctures and fit tyres to motorcycle wheels</th>
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<tbody>
<tr>
<td>Level</td>
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<td>Credits</td>
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**Purpose**

This unit standard is for people in motorcycle engineering workshops and tyre fitting bays. People credited with this unit standard are able to demonstrate knowledge of fitting and repairing motorcycle tyres and inspecting wheels, and repair a puncture in a motorcycle tube and tubeless tyre.

**Classification**

Motor Industry > Tyres

**Available grade**

Achieved

**Entry information**

**Recommended skills and knowledge**

Unit 238, *Remove and replace wheels and tyres, and balance wheels*, or demonstrate equivalent knowledge and skills.

**Explanatory notes**

1. The following legislation, regulations, and their amendments are required to be consulted and followed where applicable:
   - Health and Safety in Employment Act, 1992

2. Reference to *suitable tools and equipment* means industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task to a professional and competent manner with due regard to safe working practices.

3. Because of the particular nature of this unit standard, it is essential that the practical assessment evidence is obtained from commercial jobs in the workplace under normal workplace conditions.
Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of fitting and repairing motorcycle tyres and inspecting wheels.

Evidence requirements

1.1 Safety precautions when demounting and mounting motorcycle tyres are described according to tyre machine operating instructions and motorcycle manufacturer’s workshop manual instructions.

Range using compressed air, tyre and tube inflation, wheel support, using a tyre changing machine, using hand tools and tyre tools.

1.2 Wheel and tyre handling precautions are described according to tyre manufacturer’s insurrections.

Range prevention of damage to wheel rims and tyre beads, valve positioning, avoidance of tube pinching and folding, seating of tyre beads, cleaning, inspection, lubricating wheel assemblies.

Outcome 2

Repair a puncture in a motorcycle tube and tubeless tyre.

Evidence requirements

2.1 Safe working practices are observed throughout the task.

Range personal safety, safety of others, equipment safety.

2.2 Suitable tools and equipment are selected and used to enable tyres to be repaired.

2.3 The motorcycle wheel and tyre assembly is inspected, and its condition is determined.

Range pressure loss, tyre wear, wheel damage, tyre impact damage, casing failure.

2.4 Demounting and mounting motorcycle tyres are carried out according to the rim type.

Range cast type, composite type, pressed steel type, split rim type.
2.5 The disassembled motorcycle wheel and tyre assembly components are inspected, and their suitability for repair is determined.

Range inner casing damage, beading damage, compliance to Traffic Regulations 1976, valve, wheel rim/s, rusting, wheel damage, tube damage.

2.6 The puncture is repaired to tyre manufacturer's recommendations and the puncture repair kit instructions, depending on the type of tyre, and size and location of the puncture.

Range 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.

2.7 The size and type of replacement motorcycle tyres and tubes are selected to conform to that of the wheel and to the motorcycle manufacturer's and customer's requirements.

2.8 Wheel and tyre assembly is balanced according to equipment manufacturer's instructions.

Range static, dynamic.

| Replacement information | This unit standard and unit standard 2327 have been replaced by unit standard 24403, unit standard 24404, and unit standard 24405. |

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

| Status information and last date for assessment for superseded versions |
|--------------------------|-------------------------------------------------|
| **Process** | **Version** | **Date** | **Last Date for Assessment** |
| Registration | 1 | 23 February 1999 | 31 December 2016 |
| Revision | 2 | 28 April 1999 | 31 December 2016 |
| Revision | 3 | 16 April 2003 | 31 December 2016 |
| Rollover | 5 | 19 November 2010 | 31 December 2016 |
| Rollover | 6 | 18 February 2016 | 31 December 2020 |

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<tr>
<th>Consent and Moderation Requirements (CMR) reference</th>
<th>0014</th>
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Please note
Providers must be granted consent to assess against standards (accredited) by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Consent requirements and an outline of the moderation system that applies to this standard are outlined in the Conesnt and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.