



Australian Government

AURJTJ102 Remove, inspect, repair and refit motorcycle tyres and tubes

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Modification History

Release	Comments
1	This unit of competency was first released in AUR Automotive Retail, Service and Repair Training Package Release 9.0.

Application

This unit describes the performance outcomes required to remove tyres and tubes from motorcycle wheels, inspect the tyre and wheel to assess serviceability, carry out tyre and tube repairs, and reassemble the wheel assembly. It involves identifying and confirming work requirements, preparing for the work, inspecting, repairing and refitting motorcycle tyres and tubes, and completing workplace processes and documentation.

It applies to those working in the motorcycle service and repair industry. This unit does not apply to agricultural machinery, heavy commercial vehicles, marine vessels or mobile plant machinery.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite unit(s)

No prerequisite units.

Competency field(s)

Mechanical - Motorcycle

Unit sector(s)

Technical - Wheels and Tyres

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>

1. Prepare to remove, repair and refit motorcycle tyres and tubes	1.1 Job requirements are determined from workplace instructions 1.2 Tyre and tube removal, inspection, repair and refitting information is sourced and interpreted 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Remove and inspect tyres, tubes and wheels	2.1 Tyres and tubes are removed from wheels according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i> 2.2 Tyres, tubes and wheels are inspected according to manufacturer specifications and workplace procedures 2.3 Inspection findings and recommendations for necessary repairs are reported according to workplace procedures
3. Repair and refit tyres and tubes	3.1 Repair options are analysed and those most appropriate to the circumstances are selected 3.2 Tyres and tubes are repaired according to manufacturer specifications and workplace procedures 3.3 Tyre is mounted to wheel according to manufacturer specifications and workplace procedures, and without causing damage to components or systems 3.4 Assembled wheel and tyre are checked for serviceability and correct assembly, and wheel assembly is inflated according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and wheel assembly is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 4.4 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning	locate tyre repair information efficiently.
Reading	interpret information in manufacturer specifications and workshop literature when seeking tyre and tube repair procedures and specifications.
Writing	legibly and accurately fill out workplace documentation, making recommendations and recording material used.
Numeracy	- interpret numerical information in: - manufacturer specifications - wheel and rim assemblies - tyres and tubes - workplace instructions - tyre inflation gauges - understand numerical divisions in metric and imperial units of measurement.
Technology	- operate tyre changing tools and equipment - operate tyre and tube repair equipment.

Range of conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - deflating and inflating motorcycle tyres - manually handling motorcycle wheel assemblies - environmental requirements, including procedures for trapping and disposing of tyre material produced during repair procedures.
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Unit Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
AURJTJ102 Remove, inspect, repair and refit motorcycle tyres and tubes	AURJTJ002 Remove, inspect, repair and refit motorcycle tyres and tubes	Updates to Knowledge Evidence	Equivalent

Assessment Requirements for AURJTJ102 Remove, inspect, repair and refit motorcycle tyres and tubes

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- remove, inspect, repair and refit two of the following motorcycle tyres and their tubes:
 - road radial tyre
 - road bias tyre
 - off-road tyre

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- methods to locate and interpret information required to remove, inspect and refit motorcycle tyres, including:
 - manufacturer specifications and procedures
 - tyre placards and markings
 - workplace procedures
- workplace procedures required to remove, inspect, repair and re-fit motorcycle tyres and including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - types, application and function of tyre changing equipment and tyre and tube repair equipment
 - housekeeping procedures including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment

- disposal of excess materials
 - recycling procedures
- workplace health and safety (WHS) requirements, including statutory regulations, codes and standards, relating to removing, inspecting, repairing and refitting motorcycle tyres, including procedures for:
 - deflating and inflating motorcycle tyres
 - gauge pressure
 - overinflation and underinflation
 - managing risks associated with working with stored energy, including
 - air pressure
 - explosions, blasts and ruptures
 - explosion of the assembly
 - mechanical release of stored energy
 - noise
 - projectiles, flying debris or components
 - the force of explosions and blasts
 - the tyre blowing off the rim
 - manually handling motorcycle wheel assemblies
 - using wheel assembly removal tools
- environmental requirements, including procedures for trapping and disposing of tyre material produced during repair procedures
- types and applications of different types of tyres, tubes and wheels, including:
 - road radial
 - road bias
 - cross-ply
 - off road
 - race
 - spoke rims
- procedures for deflating, dismantling and inspecting wheel assemblies, including:
 - rim locks
 - spoke rims
 - one-piece wheels
- procedures for repairing tyres and tubes
- identifying tyre pressure monitoring systems

- procedures for reassembling and inflating wheel assemblies, including:
 - rim locks
 - spoke rims
 - one-piece wheels
 - post-assembly checks of wheel assemblies.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the motorcycle tyres and tubes that they have worked on, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- motorcycle repair workplace or simulated workplace
- workplace instructions
- manufacturer tyre and tube repair procedures and specifications
- motorcycle tyres, tubes and wheel assemblies specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting, repairing and refitting motorcycle tyres and tubes, including:
 - tyre and tube repair tools and equipment
 - tyre and tube repair patches and plugs
 - tyre changing tools and equipment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Link

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/AUR>.