



Australian Government

AURLTJ202 Remove, inspect, repair and refit light vehicle tyres

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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 skills and knowledge required to remove, inspect, repair and refit light vehicle tyres from wheel assemblies. Where the tyre configuration includes an inner tube, the unit also covers the removal, inspection, repair and refit of the tube. It involves identifying and confirming work requirements, preparing for the task, removing, inspecting, repairing and refitting the tyres and completing workplace processes and documentation.

This unit applies to those who work within the automotive service and repair industry. The tyres include those of light vehicles or outdoor power equipment. 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)

N/A

Unit sector(s)

Mechanical - Light Vehicle 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, inspect, repair and refit light vehicle tyres	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for tyre removal, inspection, repair activity 1.3 Identify hazards and environmental issues, assess potential risks and implement control measures in line with workplace policies and procedures 1.4 Identify tools, equipment and materials required for the job and establish serviceability according to workplace procedures
2. Remove and inspect tyres and rims	2.1 Remove tyres from rims according to manufacturer and workplace procedures, workplace health and safety and environmental requirements 2.2 Inspect tyres and rims according to manufacturer specifications and workplace procedures 2.3 Report inspection findings and make recommendations for necessary repairs or replacements according to workplace procedures
3. Repair and refit tyres	3.1 Identify required information for repair or replacement activity 3.2 Carry out repairs or replacements according to workplace and manufacturer procedures, manufacturer specifications, workplace health and safety and environmental requirements 3.3 Mount tyre to rim according to manufacturer and workplace procedures, without causing damage to components or systems 3.4 Check assembled wheel and tyre for correct assembly and serviceability according to manufacturer specifications and workplace procedures, and rectify any issues identified 3.5 Inflate tyre according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

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

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Reading	- Interprets workplace instructions such as job cards - Reads and interprets information from manufacturer specifications, workplace procedures and documentation when seeking tyre and tube repair procedures and specifications.
Oral communication	Clarifies instructions.
Numeracy	- Interprets numerical information when repairing tyres - Understands metric and imperial units of measurement.
Technology	- Operates specialised tools and equipment - Operates specialised repair equipment.

Range of conditions

No conditions apply to this unit of competency at the time of publication.

Unit Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
AURLTJ202 Remove, inspect, repair and refit light vehicle tyres	AURLTJ102 Remove, inspect, repair and refit light vehicle tyres and tubes	Updates to the title, Application, Elements, Performance Criteria, Performance Evidence, and Knowledge Evidence	Equivalent

Assessment Requirements for AURLTJ202 Remove, inspect, repair and refit light vehicle tyres

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- remove, inspect, repair and refit one radial tyre to an alloy wheel assembly, and
- remove, inspect, repair and refit another tyre to a steel wheel assembly, using either a radial tubeless tyre or tube tyre.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to remove, inspect, repair and re-fit light vehicle tyres and tubes including:
 - manufacturer specifications and procedures
 - tyre placards, sidewall markings and match markings
 - workplace procedures
- workplace procedures required to remove, inspect, repair and re-fit light vehicle tyres and tubes including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures including:
 - disposal of excess materials
 - examination of tools and equipment
 - identification, tagging and isolation of faulty equipment
 - recycling procedures
 - storage of equipment
- workplace health and safety (WHS) requirements, including statutory regulations, codes and standards, relating to light vehicle tyres, including procedures for:

- deflating and inflating tyres
 - gauge pressure
 - overinflation and underinflation
- hazards and risks when working with stored energy, including:
 - air pressure
 - explosion of the assembly
 - explosions, blasts and ruptures
 - mechanical release of stored energy
 - noise
 - projectiles, flying debris or components
 - the force of explosions and blasts
 - the tyre blowing off the rim
- manual handling light vehicle wheel assemblies
- manual handling of high rim diameter assemblies
- using bead seaters and bead breakers
- environmental requirements relating to light vehicle tyres and tubes, including procedures for trapping and disposing of tyre material produced during repair
- procedures for removing, inspecting, repairing or replacing, and refitting tyres and tubes
- types and uses of tyres, tubes and wheels, including:
 - multi-piece rims and split lock rings
 - radial and bias or diagonal ply tyres
 - run flat tyres
 - steel and alloy wheels
 - tubed and tubeless tyres
- types and operation of tyre changing equipment
 - bead seaters
 - tyre changers
- tyre and tube repair equipment
- troubleshooting techniques and processes, including:
 - bead and rim inspection
 - pressure testing
 - visual inspections
- identifying tyre pressure monitoring systems and their application

- post-fitting procedures and checks of light vehicle tyres and tubes.

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 light vehicle 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:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer tyre and tube repair procedures and specifications
- tyres and wheels specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting, repairing and refitting light vehicle tyres, including:
 - tyre repair tools and equipment
 - tyre repair consumables
 - 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>.