



Australian Government

AURLTJ102 Remove, inspect, repair and refit light vehicle tyres and tubes

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to remove, inspect, repair and refit light vehicle tyres and tubes from wheels. It involves identifying and confirming work requirements, preparing for the task, removing, inspecting, repairing and refitting the tyres and tubes, and completing workplace processes and documentation.

This unit applies to those who work within the automotive service and repair industry. The tyres and tubes include those of light vehicles, motorcycles or outdoor power equipment. This unit does not apply to agricultural machinery, heavy commercial vehicles, marine vessels or mobile plant machinery.

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

Unit Sector

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 and tubes	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for tyre and tube 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

ELEMENTS	PERFORMANCE CRITERIA
	procedures
2. Remove and inspect tyres, tubes and wheels	2.1 Remove tyres and tubes from wheels according to manufacturer and workplace procedures, workplace health and safety and environmental requirements 2.2 Inspect tyres, tubes and wheels according to manufacturer specifications and workplace procedures 2.3 Report inspection findings and make recommendations for necessary repairs according to workplace procedures
3. Repair and refit tyres and tubes	3.1 Identify required information for repair activity 3.2 Carry out repairs according to workplace and manufacturer procedures, manufacturer specifications, workplace health and safety and environmental requirements 3.3 Mount tyre to wheel 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 and confirm vehicle is ready for use 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.

SKILL	DESCRIPTION
Oral communication	• Clarifies instructions.
Numeracy	• Interprets numerical information when repairing tyres and tubes • Understands metric and imperial units of measurement.
Technology	• Operates specialised tools and equipment • Operates specialised repair equipment.

Unit Mapping Information

Supersedes and is equivalent to AURLTJ002 Remove, inspect, repair and refit light vehicle tyres and tubes.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURLTJ102 Remove, inspect, repair and refit light vehicle tyres and tubes

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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 light vehicle tyres to both steel and alloy wheels, including repairs or replacements to:
 - two tubes
 - two radial ply tyres.

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
 - 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:
 - 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 relating to light vehicle tyres and tubes, including procedures for:
 - deflating and inflating tyres

- manually handling light vehicle wheel assemblies
- 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 and refitting tyres and tubes, including:
 - split lock rings
 - one piece wheels
- types and uses of tyres, tubes and wheels, including:
 - radial and bias or diagonal ply tyres
 - tubed and tubeless tyres
 - steel and alloy wheels
 - run flat tyres
- types and operation of tyre changing equipment and tyre and tube repair equipment
- 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
- light vehicle tyres, tubes and wheels specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting, repairing and refitting light vehicle tyres and tubes, including:
 - tyre and tube repair tools and equipment
 - tyre and tube 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.

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