



Australian Government

AURHTJ106 Remove, inspect, repair and refit heavy 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 heavy 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.

The unit applies to those who work in the automotive service and repair industry. The tyres and tubes include those of forklifts, heavy commercial vehicles or mobile plant machinery. This unit does not apply to off-the-road (OTR) tyres of mobile plant machinery.

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

Unit Sector

Mechanical – Heavy Vehicle Technical – Wheels and Tyres

Elements and Performance Criteria

ELEMENT	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 heavy vehicle tyres and tubes	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for tyre and tube removal, inspection and 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

ELEMENT	PERFORMANCE CRITERIA
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 information in manufacturer specifications and workshop literature when seeking tyre and tube repair procedures and specifications
Oral communication	Clarifies instructions
Numeracy	Interprets numerical information when repairing tyres and tubes

SKILL	DESCRIPTION
	• Understands both metric and imperial units of measurement
Technology	• Operates specialised tools and equipment • Operates specialised repair equipment

Unit Mapping Information

Supersedes and is equivalent to AURHTJ006 Remove, inspect, repair and refit heavy 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 AURHTJ106 Remove, inspect, repair and refit heavy 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 heavy vehicle tyres to both split lock ring and one piece wheels, including repairs or replacements to:
 - at least two tubes
 - at least 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 heavy vehicle tyres and tubes, including:
 - manufacturer specifications and procedures
- workplace procedures required to remove, inspect, repair and re-fit heavy 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 heavy vehicle tyres and tubes, including procedures for:
 - deflating and inflating tyres
 - manual handling when lifting wheel assembly

- removing, repairing and refitting tyres and tubes
- environmental requirements relating to heavy vehicle tyres and tubes, including procedures for:
 - trapping and disposing of tyre material produced during repair procedures
- procedures for removing, inspecting, repairing and refitting tyres and tubes, including:
 - split lock rings
 - rim or hub mounted multi-piece rims
 - one piece wheels
 - two piece split wheels
- types and uses of tyres, tubes, wheels and rims, including:
 - radial and bias ply tyres
 - tubed and tubeless tyres
 - rim or hub mounted multi-piece wheels
 - one piece wheels
 - two piece split wheels
- types and operation of tyre changing equipment and tyre and tube repair equipment
- post-fitting procedures and checks of heavy 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 heavy 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
- heavy vehicle tyres, tubes, wheel and rim assemblies specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting, repairing and refitting heavy 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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