



Australian Government

AURHTJ206 Remove, inspect, repair and refit heavy 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 heavy 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.

The unit applies to those who work in the automotive service and repair industry. The tyres include those of heavy commercial vehicles or mobile plant machinery. This unit does not apply to off-the-road (OTR) tyres of 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 - Heavy 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 heavy vehicle tyres	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for tyre 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
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 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	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 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 information in manufacturer specifications and workshop literature when seeking tyre repair procedures and specifications
Numeracy	- Interprets numerical information when repairing tyres - Recognises and interprets both metric and imperial units of measurement
Technology	Operates specialised tools and 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
AURHTJ206 Remove, inspect, repair and refit heavy vehicle tyres	AURHTJ106 Remove, inspect, repair and refit heavy vehicle tyres and tubes	Updates to the title, Application, Elements, Performance Criteria, Foundation Skills, Performance Evidence, Knowledge Evidence, and Assessment Conditions	Equivalent

Assessment Requirements for AURHTJ206 Remove, inspect, repair and refit heavy 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 a one-piece wheel, and
- remove, inspect, repair and refit another tyre to a split lock ring, using either a radial tyre or a tube.

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, including:
 - manufacturer specifications and procedures
 - tyre placards and markings
- workplace procedures required to remove, inspect, repair and re-fit heavy vehicle tyres, 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, including statutory regulations, codes and standards, relating to heavy vehicle tyres and tubes, including procedures for:

- deflating and inflating tyres
 - gauge pressure
 - overinflation and underinflation
- hazards and risks associated with working with stored energy, including:
 - air pressure
 - mechanical release of stored energy
 - projectiles, flying debris or components
 - explosions, blasts and ruptures
 - the force of explosions and blasts
 - the tyre blowing off the rim
 - explosion of the assembly
 - noise
- establishing exclusion zones
- manual handling when lifting wheel assembly
- removing, repairing and refitting tyres and tubes
- using a safety cage or other portable restraint device
- environmental requirements relating to heavy vehicle tyres, 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
 - demountable rims
 - one-piece wheels
 - two-piece split wheels
 - suitability of the wheel or rim to the tyre
 - manufacturer tolerance checks
 - rim and component tolerance checks
 - post-fitting inspection
 - checking correct assembly
- types and uses of tyres, wheels and rims, including:
 - radial and bias ply tyres
 - tube-type 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
- 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 heavy vehicle tyres.

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 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 repair procedures and specifications
- heavy vehicle tyres, wheel and rim assemblies specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting, repairing and refitting heavy 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>.