



Australian Government

AURHTJ006 Remove, inspect, repair and refit heavy vehicle tyres and tubes

Release: 1

AURHTJ006 Remove, inspect, repair and refit heavy vehicle tyres and tubes

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to remove and refit heavy vehicle tyres and tubes from wheels and rims. It involves identifying and confirming work requirements, preparing for the work; inspecting, repairing and refitting the heavy vehicle tyres and tubes, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The tyres and tubes include those of agricultural machinery, 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.

Competency Field

Mechanical - Heavy Vehicle

Unit Sector

Technical - Wheels and Tyres

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to remove, inspect, repair and refit heavy vehicle tyres and	1.1 Job requirements are determined from workplace instructions 1.2 Tyre and tube removal, inspection, repair and refitting information is sourced and interpreted

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
tubes	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, wheels and rims	2.1 Tyres and tubes are removed from wheels or rims according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i> 2.2 Tyres, tubes, wheels or rims 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, workplace procedures, and safety and environmental requirements 3.3 Tyre is mounted to wheel or rim 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 are 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
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Skills	Description
Learning skills to:	locate appropriate sources of information efficiently.
Reading skills to:	interpret information in manufacturer specifications and workshop literature when seeking tyre and tube repair procedures and specifications.
Writing skills to:	legibly and accurately fill out workplace documentation, making repair recommendations, and recording parts and material used.
Numeracy skills to:	- interpret numerical information when repairing tyres and tubes - understand both metric and imperial units of measurement.
Technology skills to:	- 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 heavy vehicle tyres - manual handling when lifting wheel assembly - removing, repairing and refitting tyres and tubes - environmental requirements, including procedures for trapping and disposing of tyre material produced during repair procedures.
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Unit Mapping Information

Equivalent to AURHTJ2006 Remove, inspect, repair and fit tyres and tubes (heavy)

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURHTJ006 Remove, inspect, repair and refit heavy vehicle 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 heavy vehicle tyres to both split lock ring and one piece wheels, including repairs to:
 - two bias ply tyres
 - two tubes
 - two radial ply tyres.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) 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, 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 applications 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, application 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

Assessors must satisfy NVR/AQTF assessor requirements.

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.

Links

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