

AURHTJ007 Remove, inspect, repair and refit industrial tyres and tubes

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Modification History

Release	Comments
Release 2	Updates to Knowledge Evidence
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 5.0

Application

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

It applies to those who fit tyres to wheel assemblies and rim assemblies in the automotive industrial sector.

Licensing, legislative, regulatory, Australian standards or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

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.
1. Prepare to remove, repair and refit industrial tyres and tubes	1.1 Identify job requirements from workplace instructions 1.2 Obtain and interpret tyre and tube remove, inspect, repair and refit information 1.3 Identify hazards and environmental issues, assess potential risks, and implement control measures in line with workplace policies 1.4 Select tools, equipment and materials and check for serviceability

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Remove and inspect tyres, tubes and wheels	<p>2.1 Remove tyres and tubes from wheels according to manufacturer procedures, workplace procedures and safety and environmental requirements</p> <p>2.2 Inspect tyres, tubes, wheels or rims according to manufacturer specifications and workplace procedures</p> <p>2.3 Report inspection findings and make recommendations for necessary repairs according to workplace procedures</p>
3. Repair and refit tyres and tubes	<p>3.1 Analyse repair options and select those most appropriate to the circumstances according to workplace procedures</p> <p>3.2 Repair tyres and tubes according to manufacturer specifications, workplace procedures, and safety and environmental requirements</p> <p>3.3 Mount tyre to wheel or rim according to manufacturer specifications and workplace procedures without causing damage to components or systems</p> <p>3.4 Check assembled wheel for serviceability and correct assembly, and inflate according to manufacturer specifications and workplace procedures</p>
4. Complete work processes	<p>4.1 Complete final inspection to ensure work meets workplace expectations and assembled wheel is presented ready for use</p> <p>4.2 Clear work area and dispose of waste or recycle materials according to workplace procedures</p> <p>4.3 Examine and store tools and equipment according to workplace procedures</p> <p>4.4 Complete documentation according to workplace procedures</p>

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
Learning skills to:	<ul style="list-style-type: none"> locate relevant sources of information

Skills	Description
	<ul style="list-style-type: none">recognise and adapt to different workplace tyre management systems.
Reading skills to:	<ul style="list-style-type: none">interpret information from manufacturer procedures when seeking tyre and tube repair procedures and specifications.
Writing skills to:	<ul style="list-style-type: none">legibly and accurately complete workplace documentation, making repair recommendations, and recording parts and material used.
Numeracy skills to:	<ul style="list-style-type: none">interpret numerical information when repairing tyres and tubesunderstand both metric and imperial units of measurement.
Technology skills to:	<ul style="list-style-type: none">operate tyre changing tools and equipmentoperate tyre and tube repair equipment.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AURHTJ007 Remove, inspect, repair and refit industrial tyres and tubes	N/A	New unit	N/A

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 AURHTJ007 Remove, inspect, repair and refit industrial tyres and tubes

Modification History

Release	Comment
Release 2	Updates to Knowledge Evidence
Release 1	New unit of competency.

Performance Evidence

The candidate must demonstrate they can perform the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must demonstrate removing, inspecting, repairing and refitting industrial equipment tyres and tubes that safely follows workplace procedures to meet required outcomes.

This includes removing, inspecting, repairing and refitting:

- two tyres and tubes fitted to split or multi-piece wheels
- two tyres and tubes fitted to drop centre wheels.

Whilst completing the above work, individuals must demonstrate they can:

- select appropriate tools, equipment and materials
- safely remove tyres and tubes from wheels according to manufacturer specifications and workplace procedures
- mount tyre to wheel or rim without causing damage to components or systems and check assembled wheel for serviceability and correct assembly
- conduct post-work inspection and complete work processes, including storage of equipment and documentation.
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Knowledge Evidence

The candidate must demonstrate the following knowledge:

Key policies and procedures for removing, inspecting, repairing and refitting industrial equipment tyres and tubes, including:

- how to locate and interpret manufacturers specifications, and workplace procedures for removing, inspecting, repairing and fitting industrial tyres and tubes, including:
 - tyre placards and markings

- work health and safety (WHS) requirements, including statutory regulations, codes and standards, relating to industrial tyres and tubes, including procedures for:
 - deflating and inflating tyres on industrial equipment
 - gauge pressure
 - overinflation and underinflation
 - managing 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
 - raising and supporting machinery on unstable surfaces
 - manual handling when lifting wheel assemblies
 - wearing the correct personal protective equipment (PPE)
- workplace procedures required for removing, inspecting, repairing and refitting industrial 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
- 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 or multi-piece rims
 - drop centre wheels
 - suitability of the wheel or rim to the tyre
 - identifying tyre pressure monitoring systems
- post-fitting procedures and checks of industrial tyres and tubes

Key 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

Key types, application and operation of tyre changing equipment and tyre and tube repair equipment including:

- workplace tyre management systems.
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Assessment Conditions

The assessment must:

- include access to:
 - a workplace or simulated workplace that reflects workplace conditions - where simulation is used, it must reflect real working conditions by modelling industry operating conditions and contingencies, as well as, using suitable facilities, equipment and resources
 - workplace instructions
 - manufacturer tyre and tube repair procedures and specifications
 - industrial tyres and tubes specified in the performance evidence
 - tools, equipment and materials appropriate for removing, inspecting, repairing and fitting industrial tyres and tubes, including:
 - tyre and tube repair tools and equipment
 - tyre and tube repair consumables
 - tyre changing tools and equipment.
- be demonstrated in the workplace or in a simulated environment that reflects workplace conditions
- be conducted in a safe environment
- be assessed in compliance with relevant policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed
- confirm consistent performance can be applied in a range of relevant workplace circumstances

Assessor requirements

Assessors of this unit must:

- satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards
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