



Australian Government

AURHTJ107 Remove, inspect, repair and refit industrial tyres and tubes

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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 performance outcomes required to remove and refit tyres and tubes from the wheels and rims of industrial equipment, forklifts, and elevated work platforms. 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/Regulatory Information

Licensing, legislative and certification requirements that apply to this unit set can vary between States, Territories, and industry sectors, and must be sourced from state jurisdictions prior to applying the unit.

Pre-requisite unit(s)

No prerequisite units.

Competency field(s)

N/A

Unit sector(s)

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
2. Remove and inspect tyres, tubes and wheels	2.1 Remove tyres and tubes from rims according to manufacturer procedures, workplace procedures and safety and environmental requirements 2.2 Inspect tyres, tubes, wheels or rims 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 Analyse repair options and select those most appropriate to the circumstances according to workplace procedures 3.2 Repair tyres and tubes according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.3 Mount tyre to wheel or rim according to manufacturer specifications and workplace procedures without causing damage to components or systems 3.4 Check assembled wheel for serviceability and correct assembly, and inflate according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Complete final inspection to ensure work meets workplace expectations and assembled wheel is presented ready for use 4.2 Clear work area and dispose of waste or recycle materials according to workplace procedures 4.3 Examine and store tools and equipment according to workplace procedures 4.4 Complete documentation 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
Learning skills to:	- locate relevant sources of information - recognise and adapt to different workplace tyre management systems.
Reading skills to:	interpret information from manufacturer procedures when seeking tyre and tube repair procedures and specifications.
Writing skills to:	legibly and accurately complete 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

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
AURHTJ107 Remove, inspect, repair and refit industrial tyres and tubes	AURHTJ007 Remove, inspect, repair and refit industrial tyres and tubes	Updates to Application, Performance Evidence, and Knowledge Evidence	Not equivalent

Assessment Requirements for AURHTJ107 Remove, inspect, repair and refit industrial tyres and tubes

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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 rims
- two tyres and tubes fitted to smooth-walled press-on rims.

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

- select appropriate tools, equipment and materials
- safely remove tyres and tubes from rims 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.

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:
 - methods to locate and interpret manufacturers specifications, and workplace procedures for removing, inspecting, repairing and fitting industrial tyres and tubes, including:
 - tyre placards and sidewall 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
 - explosions, blasts and ruptures
 - explosion of the assembly
 - mechanical release of stored energy
 - noise
 - projectiles, flying debris or components
 - the force of explosions and blasts
 - the tyre blowing off the rim
- establishing exclusion zones
- raising and supporting machinery on unstable surfaces
- manual handling when lifting wheel assemblies
- wearing the correct personal protective equipment (PPE)
- working in hazardous conditions, including:
 - falling or dropped objects
 - moving mobile plant
 - operating outdoors
 - operating in remote locations
 - personnel and pedestrians within the work environment
 - rupturing wheel components
- 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
 - usage of tyre changing 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
 - split bolt-together rims
 - smooth-walled press-on rims
 - steel reinforcement bands
 - 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, application and operation of tyre changing equipment and tyre and tube repair equipment
- Key types and applications of tyres, tubes, wheels and rims, including:
 - radial and bias ply tyres
 - solid-filled tyres
 - press-on solid cushion tyres
 - pneumatic tyres
 - press-on resilient tyres
 - tubed and tubeless tyres
 - rim or hub mounted multi-piece wheels
 - one-piece wheels

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 industrial 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
- 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.

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>.