



Australian Government

AURHTJ204 Remove, inspect, repair and refit agricultural equipment 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 skills and knowledge required to remove, inspect, repair and refit agricultural tyres and tubes from wheel assemblies. 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 agricultural machinery equipment. This unit does not apply to heavy commercial vehicles, off-the-road or earthmoving vehicles, light vehicles, motorcycles, or 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

Element	Performance criteria
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<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 agricultural 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
2. Remove and inspect tyres, tubes and rims	2.1 Remove tyres and tubes from rims according to manufacturer and workplace procedures, workplace health and safety and environmental requirements 2.2 Inspect tyres, tubes and 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 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	Reads and interprets information from manufacturer specifications, workplace procedures and documentation when seeking tyre and tube repair procedures and specifications
Numeracy	- Interprets numerical information when repairing tyres and tubes - Understands both metric and imperial units of measurement
Technology	- Operates specialised tools and equipment - Operates specialised 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
AURHTJ204 Remove, inspect, repair and refit agricultural equipment tyres and tubes	AURHTJ104 Remove, inspect, repair and refit agricultural equipment tyres and tubes	Updates to Application, Elements, Performance Criteria, Performance Evidence, and Knowledge Evidence	Equivalent

Assessment Requirements for AURHTJ204 Remove, inspect, repair and refit agricultural equipment 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 agricultural tyres and tubes, including:
 - at least two tyres and tubes fitted to split or multi-piece rims
 - at least two tyres and tubes fitted to drop centre rims.

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 agricultural tyres and tubes, including:
 - manufacturer specifications and procedures
 - tyre placards and markings
- workplace procedures required to remove, inspect, repair and re-fit agricultural 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, including statutory regulations, codes and standards relating to agricultural tyres and tubes, including procedures for:
 - deflating and inflating tyres on agricultural equipment

- 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
- removing, repairing and refitting tyres and tubes
- wearing the correct personal protective equipment (PPE)
- using restraint devices, including:
 - safety cages
 - strap devices
- working in hazardous conditions, including:
 - operating outdoors
 - operating at nighttime
 - operating in remote locations
 - changing and unstable ground conditions
 - hard, soft or uneven ground conditions
 - moving mobile plant
 - falling or dropped objects
 - rupturing wheel components
 - personnel, pedestrians or livestock within the work environment
- environmental requirements relating to agricultural tyres and tubes, including:
 - procedures for trapping and disposing of tyre material produced during repair
- procedures and relevant standards for removing, inspecting, repairing and refitting tyres and tubes, including:
 - radial tyres
 - bias-ply tyres
 - flotation tyres

- solid or foam-filled tyres
 - rim or hub mounted multi-piece rims
 - one-piece wheels
 - radial and bias ply patches
 - working with old or worn tyres
- types and uses of tyres, tubes, wheels and rims, including:
 - radial and bias ply tyres
 - pneumatic tyres
 - flotation tyres
 - solid or foam-filled tyres
 - tubed and tubeless tyres
 - rim or hub mounted multi-piece wheels
 - one-piece wheels
 - drop centre wheels
- types and operation of tyre changing equipment and tyre and tube repair equipment
- identifying tyre pressure monitoring systems in modern tyres and assemblies
- post-fitting procedures and checks of agricultural 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 agricultural 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
- agricultural tyres and tubes specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting, repairing and fitting agricultural 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>.