



Australian Government

AURHTJ2004 Demount, inspect, repair and mount agricultural equipment tyres and tubes

Release 1

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Modification History

Release	Comment
Release 1	New unit of competency

Unit Descriptor

Unit descriptor	<p>This unit describes the performance outcomes required to perform repair operations to tyres and tubes fitted to agricultural equipment. It involves demounting agricultural equipment tyres and tubes from wheel rims, inspecting the tyre and rim to assess condition, performing minor tyre and tube repairs and remounting tyres and tubes to rims.</p> <p>Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.</p>
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Application of the Unit

Application of the unit	Work applies to the tyres and tubes of agricultural equipment and machinery.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<p>1. Prepare to demount, repair and mount tyres and tubes</p>	<p>1.1. Workplace instructions are used to determine job requirements for the demounting, repair and mounting of agricultural equipment tyres and tubes</p> <p>1.2. Workplace health and safety (WHS) requirements are observed and applied throughout the work</p> <p>1.3. Wheel type, rim type and mounting system is identified and procedures and information are sourced and interpreted</p> <p>1.4. Wheel assembly is visually inspected to assess immediate threat to health and safety according to legislation, manufacturer and site procedures</p> <p>1.5. Appropriate tools and equipment are selected and prepared</p>
<p>2. Demount tyre from rim</p>	<p>2.1. Tyre is demounted from rim according to workplace procedures and manufacturer and component supplier specifications</p> <p>2.2. Demounting of the tyre from the rim is completed without causing damage to any components</p>
<p>3. Inspect tyre, tube and rim</p>	<p>3.1. Inspection is carried out according to workplace procedures and manufacturer and component supplier specifications</p> <p>3.2. Inspection results are compared with manufacturer and component supplier specifications to indicate compliance or non-compliance</p> <p>3.3. Inspection findings are reported according to workplace procedures, including recommendations for necessary repairs</p>
<p>4. Repair and mount tyres and tubes</p>	<p>4.1. Repair is carried out according to manufacturer and component supplier and workplace procedures</p> <p>4.2. Tyre is mounted to rim according to manufacturer and component supplier and workplace procedures and without causing damage to components</p> <p>4.3. Wheel assembly is checked to confirm component compatibility, serviceability and correct assembly prior to inflating according to manufacturer and site procedures</p> <p>4.4. Tyre is inflated according to manufacturer and component supplier and workplace procedures</p> <p>4.5. Post-repair testing is carried out according to manufacturer and component supplier and workplace procedures</p>
<p>5. Clean up work area and finalise work processes</p>	<p>5.1. Final inspection is made to ensure work is to workplace expectations and wheel is presented ready for use</p> <p>5.2. Tools and equipment are checked and stored according to workplace expectations</p>

	5.3. Workplace documentation is completed according to workplace procedures
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Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- communication skills to:
 - clarify workplace instructions and determine job requirements
 - gain information from appropriate persons and assistance as required
- learning skills to identify sources of information, assistance and expert knowledge
- literacy skills to
 - read, interpret and follow information on written job instructions, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents
 - follow workplace documentation, such as codes of practice or operating procedures
 - document work performed during inspection and servicing operations
- numeracy skills to interpret gauges, instruments and measuring equipment
- planning and organising skills to ensure tasks are completed within an acceptable timeframe
- problem-solving skills to seek information and assistance as required to solve problems
- self-management skills to:
 - select and use appropriate equipment, materials, processes and procedures
 - follow workplace documentation, such as codes of practice or operating procedures
- teamwork skills to apply knowledge of own role to complete activities efficiently to support team activities and tasks
- technical skills to use workplace tools and equipment relating to the removal, inspection and fitting of agricultural equipment tyre assemblies
- technology skills to use technology to collect and provide information.

Required knowledge

- WHS regulations, requirements, equipment and material, and personal safety requirements
- hazard identification procedures and risk control methods
- types and classifications of agricultural equipment wheels and rims
- inspection procedures of agricultural equipment tyre assemblies
- tyre deflation methods of agricultural equipment tyres and rims
- demounting procedures of agricultural equipment wheel assemblies, including:
 - safety lock rim
 - rim or hub mounted multi piece rim
 - one piece wheel/rim
- repair procedures of agricultural equipment tyre and tubes
- mounting procedures of agricultural equipment tyre assemblies
- inflation procedures of agricultural equipment tyre assemblies
- post-mounting inspection procedures of agricultural equipment tyre assemblies

Evidence Guide

EVIDENCE GUIDE	
<p>The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.</p>	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy all of the requirements of the performance criteria and required skills and knowledge.</p> <p>A person who demonstrates competency in this unit must be able to:</p> <ul style="list-style-type: none"> • observe safety procedures and requirements • select methods and techniques appropriate to the circumstances • demount and mount a range of agricultural equipment tyres according to workplace and manufacturer and component supplier requirements • present wheel in a condition that complies with workplace requirements.
Context of, and specific resources for assessment	<p>Competency is to be assessed in the workplace or a simulated workplace environment that accurately reflects performance in a real workplace setting.</p> <p>Assessment is to occur:</p> <ul style="list-style-type: none"> • using standard workplace practices and procedures • following safety requirements • applying environmental constraints. <p>Assessment is to comply with relevant:</p> <ul style="list-style-type: none"> • regulatory requirements • Australian standards • industry codes of practice. <p>The following resources must be made available for the assessment of this unit:</p> <ul style="list-style-type: none"> • workplace location or simulated workplace • a range of agricultural equipment tyre assemblies • equipment appropriate for the demounting, repair and mounting of agricultural equipment tyre assemblies • specifications and workplace instructions.
Method of assessment	<p>Assessment must satisfy the endorsed Assessment Guidelines of</p>

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Overview of assessment

this Training Package.

Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with the application of required skills and knowledge.

Assessment methods must be by direct observation of tasks and include questioning on required skills and knowledge to ensure correct interpretation and application.

Competence in this unit may be assessed in conjunction with other units which together form part of a holistic work role.

Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate the needs of diverse clients.

Assessment processes and techniques must be culturally sensitive and appropriate to the language, literacy and numeracy capacity of the candidate and the work being performed.

Range Statement

RANGE STATEMENT	
<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<p><i>Workplace instructions</i> may include:</p>	<ul style="list-style-type: none"> • computer-generated instructions • verbal instructions • written instructions.
<p><i>Agricultural equipment tyres and tubes</i> may include:</p>	<ul style="list-style-type: none"> • deep lug tyres • radial tractor tyres • bias ply tractor tyres.
<p><i>Workplace health and safety (WHS) requirements:</i></p>	<ul style="list-style-type: none"> • are those prescribed under legislation, regulations, codes of practice, and workplace policies and procedures • may include: <ul style="list-style-type: none"> • protective clothing and equipment • use of tools and equipment • handling of material • use of fire-fighting equipment • first aid equipment • hazard control, including control of hazardous materials and toxic substances.
<p><i>Procedures and information</i> may include:</p>	<ul style="list-style-type: none"> • safe work procedures relating to the inspection, removal, repair and fitting of agricultural tyres • verbal, written and graphical instructions • signage • work schedules, plans and specifications • work bulletins or memos • material safety data sheets (MSDS) • diagrams or sketches • regulatory and legislative requirements relating to the automotive industry • Australian Design Rules • engineer's design specifications and instructions • organisation work specifications and requirements • instructions issued by authorised enterprise or external persons • Australian Standards • agricultural equipment tyre service requirements and repair manuals

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<i>Tools and equipment</i> may include:	<ul style="list-style-type: none"> • lifting equipment • hand tools, power tools • jacks and support stands • tyre handling equipment.
<i>Post-repair testing</i> may include:	<ul style="list-style-type: none"> • visual inspection of wheel assemblies • monitoring of tyre pressure • leak detection methods.

Unit Sector(s)

Competency field	Mechanical – Mobile Plant Equipment
Unit sector	Technical – Wheels and Tyres

Custom Content Section

Not applicable.