

## Unit of Competency

<b>Unit code</b> <i>Mandatory field</i>	AURHTJXXX
<b>Unit title</b> <i>Mandatory field</i>	Remove, inspect and refit agricultural equipment wheel assemblies and tyres
<b>Application</b> <i>Mandatory field</i>	<p>This unit describes the skills and knowledge required to remove, inspect and refit the wheel assemblies and tyres of agricultural vehicles. It involves identifying and confirming job requirements; preparing for the task; removing, inspecting and refitting the wheel and tyre assembly; and completing workplace processes and documentation.</p> <p>The unit applies to those who work in the automotive service and repair industry. The wheel assemblies and tyres include those of agricultural machinery. This unit does not apply to off-the-road tyres of mobile plant machinery, motorcycle, heavy, or light vehicle wheel assemblies.</p> <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
<b>Pre-requisite unit</b> <i>Optional field</i>	
<b>Competency field</b> <i>Optional field</i>	
<b>Unit sector</b> <i>Optional field</i>	Mechanical – Heavy Vehicle Technical – Wheels and Tyres
<b>Elements</b> <i>Mandatory field</i>	<b>Performance criteria</b> <i>Mandatory field</i>
1. Prepare to remove wheel and tyre assembly	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for wheel and tyre removal, inspection and re-fitting 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 wheel and tyre assembly	2.1 Remove wheel and tyre assembly according to manufacturer specifications, workplace procedures and workplace health and safety and environmental requirements

	<p>2.2 Inspect wheel and tyre assembly, mounting points and fittings 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. Refit wheel and tyre assembly	<p>3.1 Identify required information for refitting activity</p> <p>3.2 Re-fit and adjust wheel and tyre assembly according to manufacturer specifications, workplace procedures and workplace health and safety requirements</p> <p>3.3 Complete tightening sequence and torque settings according to manufacturer specifications and workplace procedures</p> <p>3.4 Check wheel assembly for correct assembly and run-out according to manufacturer specifications and workplace procedures</p>
4. Complete work processes	<p>4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use</p> <p>4.2 Clear work area and dispose of or recycle materials according to workplace procedures</p> <p>4.3 Complete documentation according to workplace procedures</p>

#### **Foundation skills**

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

#### **Learning:**

- Locates required sources of information efficiently

#### **Reading:**

- Interprets information from manufacturer specifications and workshop literature when seeking tyre, wheel and rim specifications

#### **Writing:**

- Accurately fill out workplace documentation, making recommendations regarding selected tyres and wheels

#### **Numeracy:**

- Interprets numerical information in:
  - manufacturer specifications, including wheel nut tension settings
  - demountable rim assembly documentation
  - tyres
  - disc wheels
  - tyre inflation gauges
- Understands numerical divisions in metric and imperial units of measurement

#### **Technology:**

- Operates specialised tools and equipment

<b>Range of conditions</b> <i>Optional field</i> <p>Specifies different 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.</p> <p>Range is restricted to essential operating conditions and any other variables essential to the work environment.</p>	
<b>Unit mapping information</b> <i>Mandatory field</i>	<i>No equivalent unit.</i>
<b>Links</b> <i>Mandatory field</i>	Link to Companion Volume Implementation Guide.

Mandatory fields are highlighted ☐

## Assessment Requirements

<b>Title</b> <i>Mandatory field</i>	Assessment Requirements for AURHTJXXX Remove, inspect and refit agricultural equipment wheel assemblies and tyres
<b>Performance evidence</b> <i>Mandatory field</i>	<p>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:</p> <ul style="list-style-type: none"> <li>remove, inspect, refit and adjust the wheel and tyre assemblies on the steer and drive axle dual wheels of an agricultural vehicle</li> <li>remove, inspect, refit and adjust the one-piece rim and tyre assemblies on the steer and drive axle dual wheels of a second agricultural vehicle.</li> </ul>
<b>Knowledge evidence</b> <i>Mandatory field</i>	<p>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:</p> <ul style="list-style-type: none"> <li>methods to locate and interpret information required to remove, inspect and re-fit agricultural equipment wheel and tyre assemblies, including: <ul style="list-style-type: none"> <li>manufacturer specifications and procedures</li> </ul> </li> <li>workplace procedures required to remove, inspect and re-fit agricultural equipment wheel and tyre assemblies, including: <ul style="list-style-type: none"> <li>establishing serviceability of tools and equipment</li> <li>documentation procedures</li> <li>housekeeping procedures, including:</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>▪ examination of tools and equipment</li> <li>▪ storage of equipment</li> <li>▪ identification, tagging and isolation of faulty equipment</li> <li>▪ disposal of excess materials</li> <li>▪ recycling procedures</li> <li>• consideration to age of the equipment</li> <li>• workplace health and safety (WHS) requirements, including statutory regulations, codes and standards, relating to agricultural equipment wheel and tyre assemblies, including procedures for: <ul style="list-style-type: none"> <li>• working with wheel and tyre assemblies and air inflation pressures</li> <li>• managing risks associated with working with stored energy</li> <li>• lifting and supporting vehicles and equipment</li> <li>• working in hazardous conditions, including: <ul style="list-style-type: none"> <li>▪ operating outdoors</li> <li>▪ operating at nighttime</li> <li>▪ operating in remote locations</li> <li>▪ changing and unstable ground conditions</li> <li>▪ hard, soft or uneven ground conditions</li> <li>▪ moving mobile plant</li> <li>▪ falling or dropped objects</li> <li>▪ rupturing wheel components</li> <li>▪ personnel, pedestrians or livestock within the work environment</li> </ul> </li> </ul> </li> <li>• types and applications of wheel assemblies, including: <ul style="list-style-type: none"> <li>• pneumatic tyre assemblies</li> <li>• dual and triple wheel assemblies</li> <li>• row crop assemblies</li> <li>• adjustable wheel assemblies</li> <li>• castor wheel assemblies</li> <li>• compatibility of components</li> <li>• types of rim combinations</li> </ul> </li> <li>• procedures for removing, inspecting and refitting agricultural equipment wheel and tyre assemblies, including <ul style="list-style-type: none"> <li>• wheel nut tensioning procedures</li> </ul> </li> <li>• post-fitting procedures and checks of agricultural equipment wheel and tyre assemblies, including: <ul style="list-style-type: none"> <li>• correct operation of vehicle systems affected by the removal and refitting of wheel assemblies</li> <li>• wheel and tyre assembly run-out.</li> </ul> </li> </ul>
--	--

<p><b>Assessment conditions</b></p> <p><i>Mandatory field</i></p>	<p>Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.</p> <p>Assessment must include direct observation of tasks.</p> <p>Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the agricultural equipment wheel and tyre assemblies that they have worked on e.g. repair orders.</p> <p>Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.</p> <p>The following resources must be made available:</p> <ul style="list-style-type: none"> <li>• automotive repair workplace or simulated workplace</li> <li>• workplace instructions</li> <li>• manufacturer wheel and tyre assembly specifications</li> <li>• two different agricultural vehicles and agricultural equipment wheel and tyre assemblies, including: <ul style="list-style-type: none"> <li>• disc wheels and tyres</li> <li>• one-piece rims, tyres and cast spoke wheels</li> <li>• tools, equipment and materials appropriate for removing, inspecting and refitting agricultural equipment wheel and tyre assemblies.</li> </ul> </li> </ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>
<p><b>Links</b></p> <p><i>Mandatory field</i></p>	<p>Link to Companion Volume Implementation Guide.</p>

Mandatory fields are highlighted ☐