



**Australian Government**

# **AURJTJ2001 Remove, inspect and fit motorcycle wheel assemblies**

**Release 1**

## AURJTJ2001 Remove, inspect and fit motorcycle wheel assemblies

### Modification History

Release	Comment
Release 1	New unit of competency

### Unit Descriptor

Unit descriptor	<p>This unit describes the performance outcomes required to remove, inspect and fit wheel assemblies fitted to motorcycles. It involves diagnosing deviations from correct operation, removal, inspection and fitting procedures of wheel assemblies.</p> <p>Licencing, 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 wheel assemblies of motorcycles.
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### Licensing/Regulatory Information

Not applicable.

### Pre-Requisites

Not applicable.

## Employability Skills Information

<b>Employability skills</b>	This unit contains employability skills.
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## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.
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## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare to remove wheel assembly	1.1. <i>Workplace instructions</i> are used to determine job requirements for the removal of <i>motorcycle wheel assemblies</i> 1.2. <i>Workplace health and safety (WHS) requirements</i> are observed and applied throughout the work 1.3. <i>Procedures and information</i> are sourced and interpreted 1.4. <i>Removal options</i> are analysed and those most appropriate to the circumstances are selected 1.5. Appropriate tools and equipment are selected and prepared
2. Remove and inspect wheel assembly	2.1. Wheel assembly is removed according to workplace procedures and without causing damage to components or systems 2.2. <i>Inspection of wheel assembly</i> , mounting points and fittings for damage and wear is carried out 2.3. Inspection findings are reported according to workplace procedures, including recommendations for necessary repairs or adjustments
3. Fit wheel assembly	3.1. Information required for fitting, adjustment and refitting of wheel assemblies is accessed from manufacturer and component supplier specifications and correctly interpreted 3.2. Wheel fitting and <i>adjustments</i> are carried out according to workplace procedures and manufacturer and component supplier specifications 3.3. Wheel operation is checked for correct assembly, run-out and alignment according to workplace procedures and manufacturer and component supplier specifications 3.4. Systems affected by wheel removal and refitting are checked for correct operation
4. Clean up work area and finalise work processes	4.1. Final inspection is made to ensure work is to workplace expectations 4.2. Tools and equipment are checked and stored according to workplace expectations 4.3. Workplace documentation is processed according to workplace procedures

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

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

#### Required skills

- communication skills to:
  - follow oral instructions
  - ask questions to clarify instructions or procedures
  - report inspection results
- learning skills to identify sources of information and assistance
- literacy skills to:
  - read, interpret and follow information on written job instructions, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents
  - document repairs and parts required
  - complete job card
- numeracy skills to:
  - interpret gauges and instruments
  - interpret numerical information printed on tyres
- planning and organising skills to plan own work requirements and prioritise actions to achieve required outcomes
- 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
  - recognise limitations and seek timely advice
- teamwork skills to apply knowledge of own role to complete activities efficiently to support team activities and tasks
- technical skills to:
  - use workplace technology and tools related to the removal, refitting and adjustment of motorcycle wheel assemblies, including the use of specialist tooling and equipment, measuring equipment and computerised technology

#### Required knowledge

- WHS regulations, requirements, equipment and material, and personal safety requirements relating to motorcycle tyres and tubes
- lifting and supporting procedures for motorcycles
- wheel and rim types and applications
- motorcycle drive types and applications
- wheel removal, inspection, refitting and adjusting procedures
- post-fitting procedures and checks

## Evidence Guide

<b>EVIDENCE GUIDE</b>	
<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>	
<b>Overview of assessment</b>	
<b>Critical aspects for assessment and evidence required to demonstrate competency in this unit</b>	<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"> <li>• observe safety procedures and requirements</li> <li>• select methods and techniques appropriate to the circumstances</li> <li>• remove, inspect and fit a range of motorcycle wheel assemblies according to workplace, manufacturer and component supplier requirements</li> <li>• present motorcycle in a condition that complies with workplace requirements.</li> </ul>
<b>Context of, and specific resources for assessment</b>	<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"> <li>• using standard workplace practices and procedures</li> <li>• following safety requirements</li> <li>• applying environmental constraints.</li> </ul> <p>Assessment is to comply with relevant:</p> <ul style="list-style-type: none"> <li>• regulatory requirements</li> <li>• Australian standards</li> <li>• industry codes of practice.</li> </ul> <p>The following resources must be made available for the assessment of this unit:</p> <ul style="list-style-type: none"> <li>• workplace location or simulated workplace</li> <li>• motorcycle wheel assemblies</li> <li>• equipment appropriate for the removal, inspection, fitting and adjustment of motorcycle wheel assemblies</li> <li>• specifications and workplace instructions.</li> </ul>
<b>Method of assessment</b>	Assessment must satisfy the endorsed Assessment Guidelines of

## EVIDENCE GUIDE

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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

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.

<b>Workplace instructions</b> may include:	<ul style="list-style-type: none"> <li>• computer-generated instructions</li> <li>• verbal instructions</li> <li>• written instructions.</li> </ul>
<b>Motorcycle wheel assemblies</b> may include:	<ul style="list-style-type: none"> <li>• spoked wheels</li> <li>• composite type wheels</li> <li>• one-piece wheels.</li> </ul>
<b>Workplace health and safety (WHS) requirements:</b>	<ul style="list-style-type: none"> <li>• are those prescribed under legislation, regulations, codes of practice, and workplace policies and procedures</li> <li>• may include: <ul style="list-style-type: none"> <li>• protective clothing and equipment</li> <li>• use of tools and equipment</li> <li>• handling of material</li> <li>• use of fire-fighting equipment</li> <li>• first aid equipment</li> </ul> </li> <li>• hazard control, including control of hazardous materials and toxic substances.</li> </ul>
<b>Procedures and information</b> may include:	<ul style="list-style-type: none"> <li>• verbal or written and graphical instructions, signage, work schedules, plans, specifications, work bulletins, memos, material safety data sheets, diagrams or sketches</li> <li>• safe work procedures related to the repair and replacement of motorcycle wheel assemblies</li> <li>• regulatory and legislative requirements pertaining to automotive industry, including Australian Design Rules</li> <li>• engineer's design specifications and instructions</li> <li>• organisation work specifications and requirements</li> <li>• instructions issued by authorised enterprise or external persons</li> <li>• Australian Standards</li> <li>• motorcycle service requirements and repair manuals.</li> </ul>
<b>Removal options</b> may include:	<ul style="list-style-type: none"> <li>• front wheel removal</li> <li>• rear wheel removal</li> <li>• removal of other systems to gain access to wheel.</li> </ul>
<b>Inspection of wheel assembly</b> may include:	<ul style="list-style-type: none"> <li>• tyre condition</li> <li>• rim condition</li> </ul>



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	<ul style="list-style-type: none"> <li>• wheel bearing condition.</li> </ul>
<i>Adjustments</i> may include:	<ul style="list-style-type: none"> <li>• spoke tensioning</li> <li>• axle nut tensioning</li> <li>• drive chain or drive belt tensioning.</li> </ul>

**Unit Sector(s)**

<b>Competency field</b>	Mechanical – Motorcycle
<b>Unit sector</b>	Technical – Wheels and Tyres

**Custom Content Section**

Not applicable.