



**Australian Government**

# **AURHTJ002 Select heavy vehicle tyres, wheels and rims for specific applications**

**Release: 1**

# AURHTJ002 Select heavy vehicle tyres, wheels and rims for specific applications

## Modification History

| Release   | Comment                 |
|-----------|-------------------------|
| Release 1 | New unit of competency. |

## Application

This unit describes the performance outcomes required to select heavy vehicle tyres, wheels and rims to suit specific applications. It involves identifying and confirming work requirements; preparing for the work; selecting tyres, wheels and rims; and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The tyres, wheels and rims include those of agricultural machinery, forklifts, heavy commercial vehicles or mobile plant machinery.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

## Competency Field

Mechanical - Heavy Vehicle

## Unit Sector

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. Where bold and italicised text is used, further information is detailed in the range of conditions section. |
| 1. Prepare to select tyres, wheels and rims for specific applications | 1.1 Job requirements are determined from workplace instructions<br>1.2 <b><i>Tyre, wheel and demountable rim</i></b> information is sourced and interpreted                                                 |

| <b>Elements</b>                                            | <b>Performance Criteria</b>                                                                                                                                                                                                                                                           |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.                  | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.                                                                           |
|                                                            | <p>1.3 Options are analysed and those most appropriate to the circumstances are selected</p> <p>1.4 Hazards associated with the work are identified and risks are managed</p>                                                                                                         |
| 2. Select tyres, wheels and rims for specific applications | <p>2.1 Tyre, wheel and rim options are analysed to identify technical compliance and economic benefits</p> <p>2.2 Tyres, wheels and rims are selected according to manufacturer specifications, workplace procedures, relevant Australian Design Rules, and customer requirements</p> |
| 3. Complete work processes                                 | <p>3.1 Selection is provided to appropriate personnel or customer as required and according to workplace procedures</p> <p>3.2 Workplace documentation is processed according to workplace procedures</p>                                                                             |

## 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.

| <b>Skills</b>       | <b>Description</b>                                                                                                                                                                         |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Learning skills to: | <ul style="list-style-type: none"> <li>locate appropriate sources of information efficiently.</li> </ul>                                                                                   |
| Reading skills to:  | <ul style="list-style-type: none"> <li>interpret information from manufacturer specifications and workshop literature when seeking tyre, wheel and rim specifications.</li> </ul>          |
| Writing skills to:  | <ul style="list-style-type: none"> <li>legibly and accurately fill out workplace documentation, making recommendations regarding selected tyres, wheels and rims.</li> </ul>               |
| Numeracy skills to: | <ul style="list-style-type: none"> <li>interpret numerical information when selecting tyres, wheels and rims</li> <li>understand both metric and imperial units of measurement.</li> </ul> |

## Range of Conditions

This section specifies 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. Bold italicised wording, if used in the performance criteria, is detailed below.

|                                                             |                                                                                                                                                                                                   |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>Tyre, wheel and demountable rim</i></b> must include: | <ul style="list-style-type: none"><li>• tubeless and tubed tyres</li><li>• bias ply and radial ply tyres</li><li>• demountable rims</li><li>• disc wheels</li><li>• tyre tread designs.</li></ul> |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Unit Mapping Information

Equivalent to AURHTJ2002 Select heavy vehicle tyres and rims for specific applications

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

# Assessment Requirements for AURHTJ002 Select heavy vehicle tyres, wheels and rims for specific applications

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## Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- select the tyres, wheels and rims for four different heavy vehicles to suit specific customer requirements, which must involve accessing and interpreting information in manufacturer specifications relating to the selection.

## Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- Australian Design Rules relating to heavy vehicle tyres and rims
- heavy vehicle tyre fitment guide
- heavy vehicle tyre, wheel and demountable rim assembly terminology and codes
- heavy vehicle tread patterns, and tyre, wheel and rim assembly types
- specific tyre applications for varying terrain, soils and weather conditions.

## Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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 heavy vehicle tyres, wheels and rims that they have selected, 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
- vehicle manufacturer tyre, wheel and rim specifications and tyre, wheel and rim fitment guide
- Australian Design Rules relating to heavy vehicle tyres, wheels and rims
- four different heavy vehicles for the selection of tyres, wheels and rims
- equipment and material appropriate for selecting heavy vehicle tyres, wheels and rims for specific applications.

## Links

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