



Australian Government

AURTTJ003 Remove and replace wheel and tyre assemblies

Release: 1

AURTTJ003 Remove and replace wheel and tyre assemblies

Modification History

Release	Comment
Release 1	New unit of competency

Application

This unit describes the performance outcomes required to remove and replace wheel and tyre assemblies. It requires the learner to plan and prepare the task; identify wheel and tyre assemblies; remove wheel and tyre assemblies; inspect components and identify their function; replace the wheel and tyre assembly; and maintain the work area, tools and equipment.

It applies to those undertaking a Vocational Education and Training in Schools (VETiS) or pre-vocational qualification as preparation to entering the automotive service and repair or automotive manufacturing industry.

The unit is designed for use in a highly supervised context and is not suitable for use in a vocational qualification.

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

Competency Field

Mechanical Miscellaneous

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 italicised text is used, further information is detailed in the range of conditions section
1. Prepare to remove and replace wheel and tyre assemblies	1.1 <i>Safety requirements</i> are sourced and interpreted 1.2 Task instruction is interpreted and vehicle wheel and tyre

ELEMENTS	PERFORMANCE CRITERIA
	assemblies to be worked on are identified 1.3 Manufacturer specifications and workplace procedures for removing and replacing wheel and tyre assembly are sourced and interpreted 1.4 Potential hazards and risks associated with task are identified and reported to workplace supervisor 1.5 Tools and equipment required for wheel and tyre assembly removal and replacement are identified according to manufacturer specifications
2. Remove and inspect vehicle wheel and tyre assemblies	2.1 Tools, equipment and materials are selected and checked prior to use according to manufacturer specifications and safety requirements 2.2 Vehicle is prepared for wheel removal according to workplace procedures and safety requirements 2.3 Wheel and tyre assemblies are removed according to workplace procedures and manufacturer specifications, and without causing damage to components, tools or equipment 2.4 Wheel and tyre assemblies are identified and inspected according to manufacturer specifications 2.5 Wheel and tyre assembly inspection results are recorded
3. Replace wheel and tyre assemblies	3.1 Wheel and tyre assemblies are prepared for replacement 3.2 Wheel and tyre assemblies are replaced according to workplace procedures, manufacturer specifications and safety requirements without causing damage to components, tools or equipment 3.3 Wheel and tyre assembly on vehicle is checked for correct operation
4. Complete work processes	4.1 Final inspection is made to ensure work meets task instruction and workplace standards, and vehicle wheels and tyres are presented ready for use or storage according to workplace procedures 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored according to environmental requirements and workplace procedures 4.3 Tools and equipment are checked and stored according to workplace procedures, or tagged and reported where necessary 4.4 Workplace documentation is processed according to workplace procedures

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.

Skills	Description
Learning skills to:	locate appropriate sources of wheel and tyre assembly information and assembly removal and replacement procedures.
Reading skills to:	- select and interpret key information from manufacturer specifications, safety requirements and workplace procedures to safely remove and replace wheel and tyre assemblies - select and interpret key information from environmental requirements and workplace procedures to ensure a clean and safe work site.
Writing skills to:	legibly and accurately fill out workplace documentation using correct industry terminology and conventions.
Oral communication skills to:	participate effectively in verbal exchanges using questioning and active listening to request, clarify and clearly convey information.
Numeracy skills to:	- read and interpret metric and imperial systems of measurement - read and interpret numerical information in wheel and tyre identification codes - use specialist tools correctly, including pressure gauges, and report and record the results correctly using relevant mathematical symbols and conventions (e.g. kPa for kilopascals) - use basic mathematical operations, including addition and subtraction, to calculate length.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes.
Self-management skills to:	recognise own limitations when selecting and using tools and equipment and seek timely advice.
Problem-solving skills to:	- identify potential or actual hazards and take action to minimise risk - refer problems that cannot be readily resolved and seek assistance from workplace supervisor.
Technology skills to:	set up and operate equipment and tools required to remove and replace wheel and tyre assemblies.

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.

<i>Safety requirements</i> must include:	- information about key aspects of work health and safety (WHS) and occupational health and safety (OHS) requirements, including: - use of personal protective equipment, including safety glasses, ear protection and safety footwear - use of hand tools and lifting and supporting equipment - application of procedures for handling wheel and tyre assemblies.
<i>Tools and equipment</i> must include:	- automotive hand tools - vehicle lifting and supporting equipment, including wheel chocks.
<i>Vehicles</i> must include one or more of the following:	- passenger motor vehicle - motor cycle - constructed vehicle.
<i>Wheel and tyre assemblies</i> must include:	- one vehicle fitted with steel wheels - one vehicle fitted with alloy wheels.

Unit Mapping Information

No equivalent unit.

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 AURTTJ003 Remove and replace wheel and tyre assemblies

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Performance Evidence

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

- correctly remove and replace the wheel and tyre assemblies of at least two different vehicles.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- key aspects of work health and safety (WHS) and occupational health and safety (OHS) requirements, including:
 - use of personal protective equipment, including safety glasses, ear protection and safety footwear
 - use of hand tools and lifting equipment
 - procedures for handling wheel and tyre assemblies
- types and application of wheel assemblies, including:
 - stamped or pressed steel wheels
 - alloy wheels
 - wheel studs and nuts
 - tyres, including cross-ply and radial tyres
- inspection procedures for tyre and wheel assemblies, including wheel inspection and tyre wear
- removal and replacement procedures and precautions
- tyre air pressure setting and test procedures
- work area clean-up and maintenance requirements.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the vehicles where they have removed and replaced wheel and tyre assemblies, 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 workplace or simulated workplace
- personal protective equipment appropriate to the workplace
- a vehicle fitted with steel wheels
- a vehicle fitted with alloy wheels
- automotive hand tools and lifting equipment.

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