



Australian Government

AURLTJ003 Remove, inspect and refit light vehicle wheel and tyre assemblies

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to remove, inspect and refit wheel and tyre assemblies of light vehicles. It involves identifying and confirming work requirements, preparing for work; removing, inspecting and refitting wheel and tyre assemblies, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The wheel and tyre assemblies include those of light vehicles, light commercial vehicles or trailers. The work does not involve removing the tyre from the wheel.

This unit does not apply to motorcycle or heavy vehicle wheel assemblies.

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

Competency Field

Mechanical - Light 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 remove wheel and tyre assembly	1.1 Job requirements are determined from workplace instructions 1.2 Removal, inspection and refitting information is sourced and

Elements Elements describe the essential outcomes.	Performance Criteria 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.
	interpreted 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Remove and inspect wheel and tyre assembly	2.1 Wheel and tyre assembly is removed according to manufacturer specifications, workplace procedures and safety requirements, and without causing damage to components or systems 2.2 Wheel and tyre assembly, mounting points and fittings are inspected for condition, damage and wear 2.3 Inspection findings are reported according to workplace procedures, including recommendations for necessary repairs, replacements or adjustments
3. Refit wheel and tyre assembly	3.1 Refitting options are analysed and those most appropriate to the circumstances are selected 3.2 Wheel and tyre assembly is fitted and adjusted according to manufacturer specifications, workplace procedures and safety requirements, and without causing damage to components or systems 3.3 Tightening sequence and torque settings are completed according to manufacturer specifications and workplace procedures 3.4 Wheel assembly is checked for correct assembly and run-out according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vehicle is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 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 information efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking wheel and tyre specifications, including tightening procedures.
Writing skills to:	legibly and accurately fill out workplace documentation, making repair recommendations, and recording parts and material used.
Numeracy skills to:	- interpret numerical information in: - manufacturer and component supplier specifications - tyres and wheels - workplace instructions - tyre inflation gauges - understand numerical divisions in metric and imperial units of measurement.
Technology skills to:	operate wheel attachment tools and equipment.

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:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - lifting and supporting vehicles - using wheel assembly removal tools - manually handling wheel assemblies - working with high air pressure - working with split and multi-piece wheels.
<i>Final inspection</i> must include:	- wheel assembly run-out - correct operation of vehicle systems affected by the removal and refitting of wheel assemblies - rechecking tightness of attachment devices.

Unit Mapping Information

Equivalent to AURLTJ2003 Remove, inspect, and refit light vehicle wheel assemblies

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 AURLTJ003 Remove, inspect and refit light vehicle 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:

- remove, inspect and refit three different light vehicle wheel and tyre assemblies, including two of the following wheel types:
 - one steel wheel assembly
 - one alloy wheel assembly
 - one four wheel drive vehicle wheel assembly
 - one split or multi-piece wheel assembly.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to light vehicle wheel and tyre assemblies, including procedures for:
 - lifting and supporting vehicles
 - using wheel assembly removal tools
 - manually handling wheel assemblies
 - working with high air pressure
 - working with split and multi-piece wheels
- types and applications of wheel assemblies, including:
 - stamped or pressed steel wheels
 - alloy wheels
 - wheel studs and nuts
 - run flat tyres

- procedures for pre-removal inspections of wheel assemblies, including split and multi-piece wheels
- procedures for removing, inspecting and refitting light vehicle wheel and tyre assemblies, including wheel nut tensioning procedures
- post-fitting procedures and checks of light vehicle wheel assemblies, including wheel and tyre assembly run-out.

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 light vehicle wheel and tyre assemblies that they have worked on, 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
- manufacturer wheel and tyre specifications
- three different light vehicles with the wheel and tyre assemblies specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting and refitting light vehicle wheel and tyre assemblies.

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