



Australian Government

AURLTJ213 Remove, inspect and refit light vehicle wheel and tyre assemblies

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Modification History

Release	Comments
1	This unit of competency was first released in AUR Automotive Retail, Service and Repair Training Package Release 9.0.

Application

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

This unit applies to those who work 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, heavy vehicle, agricultural equipment, or earthmoving and off the road wheel assemblies.

Licensing/Regulatory Information

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

Pre-requisite unit(s)

No prerequisite units.

Competency field(s)

N/A

Unit sector(s)

Mechanical - Light Vehicle Technical - Wheels and Tyres

Elements and Performance Criteria

Elements	Performance criteria
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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</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 refitting 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 2.2 Inspect wheel and tyre assembly, mounting points and fittings according to manufacturer specifications and workplace procedures 2.3 Report inspection findings and make recommendations for necessary repairs according to workplace procedures
3. Refit wheel and tyre assembly	3.1 Identify required information for refitting activity 3.2 Refit and adjust wheel and tyre assembly according to manufacturer specifications, workplace procedures and workplace health and safety requirements 3.3 Complete tightening sequence and torque settings according to manufacturer specifications and workplace procedures 3.4 Check wheel assembly for correct assembly and run-out according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

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

SKILL	DESCRIPTION
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Learning	• Locates required sources of information efficiently
Reading	• Interprets workplace instructions such as job cards • Interprets information from manufacturer and workshop literature when seeking wheel and tyre specifications, including tightening procedures
Oral communication	• Clarifies instructions
Numeracy	• Interprets numerical information in: ○ manufacturer and component supplier specifications ○ tyres and wheels ○ workplace instructions ○ tyre inflation gauges • Interprets numerical divisions in metric and imperial units of measurement
Technology	• Operates specialised tools and equipment

Range of conditions

No conditions apply to this unit of competency at the time of publication.

Unit Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
AURLTJ213 Remove, inspect and refit light vehicle wheel and tyre assemblies	AURLTJ113 Remove, inspect and refit light vehicle wheel and tyre assemblies	Updates to the Application and Knowledge Evidence	Equivalent

Assessment Requirements for AURLTJ213 Remove, inspect and refit light vehicle wheel and tyre assemblies

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Performance Evidence

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 remove, inspect and refit three different light vehicle wheel and tyre assemblies, including at least two of the following:

- one steel wheel assembly
- one alloy wheel assembly
- one four wheel drive vehicle wheel assembly
- one split or multi-piece wheel assembly.

Knowledge Evidence

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:

- methods to locate and interpret information required to remove, inspect and refit light vehicle wheel and tyre assemblies including:
 - manufacturer specifications and procedures
 - tyre placards and markings
 - workplace procedures
- workplace procedures required to remove, inspect and refit light vehicle wheel and tyre assemblies including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures including:
 - disposal of excess materials
 - examination of tools and equipment
 - identification, tagging and isolation of faulty equipment
 - recycling procedures

- storage of equipment
- workplace health and safety (WHS) requirements, including statutory regulations, codes and standards relating to light vehicle wheel and tyre assemblies, including procedures for:
 - lifting and supporting vehicles
 - managing risks associated with working with stored energy
 - manually handling wheel assemblies
 - safe handling procedures for large-diameter tyres and assemblies
 - using wheel assembly removal tools
 - working with high air pressure
 - working with split and multi-piece wheels
- types and applications of wheel assemblies, including:
 - alloy wheels
 - run flat tyres
 - stamped or pressed steel wheels
 - wheel studs and nuts
- procedures for pre-removal inspections of wheel assemblies, including:
 - multi-piece wheels
- procedures for removing, inspecting and refitting light vehicle wheel and tyre assemblies, including wheel nut tensioning procedures
- identifying tyre pressure monitoring systems
- post-fitting procedures and checks of light vehicle wheel assemblies, including:
 - correct operation of vehicle systems affected by the removal and refitting of wheel assemblies
 - rechecking tightness of attachment devices.
 - wheel assembly run-out

Assessment Conditions

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Link

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/AUR>.