

# **AURLTJ113 Remove, inspect and refit light vehicle wheel and tyre assemblies**

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## Modification History

Release	Comments
Release 2	Updates to the Application and Knowledge Evidence
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

## 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.

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

## Unit Sector

Mechanical - Light Vehicle Technical - Wheels and Tyres

## Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<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

ELEMENTS	PERFORMANCE CRITERIA
	<p>1.3 Identify hazards and environmental issues, assess potential risks and implement control measures in line with workplace policies and procedures</p> <p>1.4 Identify tools, equipment and materials required for the job and establish serviceability according to workplace procedures</p>
2. Remove and inspect wheel and tyre assembly	<p>2.1 Remove wheel and tyre assembly according to manufacturer specifications, workplace procedures and workplace health and safety and environmental requirements</p> <p>2.2 Inspect wheel and tyre assembly, mounting points and fittings according to manufacturer specifications and workplace procedures</p> <p>2.3 Report inspection findings and make recommendations for necessary repairs according to workplace procedures</p>
3. Refit wheel and tyre assembly	<p>3.1 Identify required information for refitting activity</p> <p>3.2 Refit and adjust wheel and tyre assembly according to manufacturer specifications, workplace procedures and workplace health and safety requirements</p> <p>3.3 Complete tightening sequence and torque settings according to manufacturer specifications and workplace procedures</p> <p>3.4 Check wheel assembly for correct assembly and run-out according to manufacturer specifications and workplace procedures</p>
4. Complete work processes	<p>4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use</p> <p>4.2 Clear work area and dispose of or recycle materials according to workplace procedures</p> <p>4.3 Complete documentation according to workplace procedures</p>

## 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
Learning	<ul style="list-style-type: none"><li>Locates required sources of information efficiently</li></ul>
Reading	<ul style="list-style-type: none"><li>Interprets workplace instructions such as job cards</li></ul>

SKILL	DESCRIPTION
	<ul style="list-style-type: none"><li>• Interprets information from manufacturer and workshop literature when seeking wheel and tyre specifications, including tightening procedures</li></ul>
Oral communication	<ul style="list-style-type: none"><li>• Clarifies instructions</li></ul>
Numeracy	<ul style="list-style-type: none"><li>• Interprets numerical information in:<ul style="list-style-type: none"><li>• manufacturer and component supplier specifications</li><li>• tyres and wheels</li><li>• workplace instructions</li><li>• tyre inflation gauges</li></ul></li><li>• Interprets numerical divisions in metric and imperial units of measurement</li></ul>
Technology	<ul style="list-style-type: none"><li>• Operates specialised tools and equipment</li></ul>

## Unit Mapping Information

Supersedes and is equivalent to AURLTJ013 Remove, inspect, and refit light vehicle wheel and tyre assemblies.

## Links

Companion Volume Implementation Guide is found on VETNet -

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

## Assessment Requirements for AURLTJ113 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
- in the course of the above work, remove, inspect and refit 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:
    - examination of tools and equipment
    - storage of equipment
    - identification, tagging and isolation of faulty equipment

- disposal of excess materials
- recycling procedures
- 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
  - using wheel assembly removal tools
  - manually handling wheel assemblies
  - working with high air pressure
  - managing risks associated with working with stored energy
  - 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:
  - 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:
  - wheel assembly run-out
  - correct operation of vehicle systems affected by the removal and refitting of wheel assemblies
  - rechecking tightness of attachment devices.

## 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.

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