



Australian Government

AURHTJ103 Remove, inspect and refit heavy vehicle wheel and tyre assemblies

Release: 1

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Modification History

Release	Comments
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 the wheel and tyre assemblies of heavy vehicles. It involves identifying and confirming job requirements; preparing for the task; removing, inspecting and refitting the wheel and tyre assembly; and completing workplace processes and documentation.

The unit applies to those who work in the automotive service and repair industry. The wheel and tyre assemblies include those of agricultural machinery, forklifts, heavy commercial vehicles or mobile plant machinery. This unit does not apply to off-the-road tyres of mobile plant machinery, motorcycle or light vehicle wheel assemblies.

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

Unit Sector

Mechanical – Heavy Vehicle Technical – Wheels and Tyres

Elements and Performance Criteria

ELEMENT	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 re-fitting 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

ELEMENT	PERFORMANCE CRITERIA
	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 Re-fit 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
Learning	Locates required sources of information efficiently
Reading	Interprets information from manufacturer and workshop literature when seeking wheel and tyre specifications, including tightening procedures
Numeracy	- Interprets numerical information in: - manufacturer specifications, including wheel nut tension settings - demountable rim assembly documentation

SKILL	DESCRIPTION
	• tyres • disc wheels • tyre inflation gauges • Understands numerical divisions in metric and imperial units of measurement
Technology	• Operates specialised tools and equipment

Unit Mapping Information

Supersedes and is equivalent to AURHTJ003 Remove, inspect, and refit heavy vehicle wheel 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 AURHTJ103 Remove, inspect and refit heavy 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, refit and adjust the wheel and tyre assemblies on the steer and drive axle dual wheels of a heavy vehicle
- remove, inspect, refit and adjust the demountable rim and tyre assemblies on the steer and drive axle dual wheels of a second heavy vehicle.

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 re-fit heavy vehicle wheel and tyre assemblies, including:
 - manufacturer specifications and procedures
- workplace procedures required to remove, inspect and re-fit heavy 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 relating to heavy vehicle wheel and tyre assemblies, including procedures for:
 - working with wheel and tyre assemblies and air inflation pressures
 - working with multi-piece split wheels, split and multi-piece wheels and rims

- manually handling wheel and tyre assemblies
- lifting and supporting heavy vehicles
- types and applications of wheel assemblies, including:
 - cast spoke wheels
 - disc wheels, including:
 - stud piloted wheels
 - hub piloted wheels
 - studs and nuts for disc wheels
 - multi-piece split wheels
 - demountable rims, including:
 - single piece tyre-to-rim assemblies
 - multi-piece tyre-to-rim assemblies
 - spacer band
 - rim clamps, studs and nuts for demountable rims
- procedures for removing, inspecting and refitting heavy vehicle wheel and tyre assemblies, including wheel nut tensioning procedures
- post-fitting procedures and checks of heavy vehicle wheel and tyre assemblies, including:
 - correct operation of vehicle systems affected by the removal and refitting of wheel assemblies
 - wheel and tyre 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 heavy 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 assembly specifications
- two different heavy vehicles and heavy vehicle wheel and tyre assemblies, including:
 - disc wheels and tyres
 - demountable rims, tyres and cast spoke wheels
- tools, equipment and materials appropriate for removing, inspecting and refitting heavy 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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