



Australian Government

AURTTJ012 Remove, inspect and refit wheel hubs and associated brake components

Release: 1

AURTTJ012 Remove, inspect and refit wheel hubs and associated brake components

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the skills and knowledge required to remove, inspect and refit wheel hubs and associated brake components during the rectification of faults in steering and suspension systems. It involves identifying and confirming work requirements, preparing for the task, removing and refitting the wheel hubs and associated brake components, and completing workplace processes and documentation.

This unit applies to those working within the automotive service and repair industry. The hubs and associated brake components include those of light vehicles, four wheel drive vehicles or light commercial vehicles. This unit does not involve servicing or repairing braking systems.

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

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.
1. Prepare to remove and refit wheel hubs and associated brake components	1.1 Identify job requirements from workplace instructions 1.2 Obtain and interpret wheel hub and braking component removal, refitting and adjustment information 1.3 Identify hazards and environmental issues, assess potential risks and implement control measures in line with workplace policies 1.4 Identify tools, equipment and materials required for the job and examine for serviceability
2. Remove and inspect wheel hubs and	2.1 Identify components to be removed and remove according to manufacturer specifications, workplace procedures, workplace

associated brake components	health and safety and environmental requirements, and without causing damage to components or systems 2.2 Inspect components according to manufacturer specifications and workplace procedures 2.3 Report inspection findings and make recommendations for necessary repairs or replacements and adjustments according to workplace procedures
3. Refit and adjust wheel hubs and associated brake components	3.1 Obtain and interpret refitting information in order to identify refitting options required for the job 3.2 Fit and adjust wheel hubs and associated brake components according to manufacturer specifications, workplace procedures, workplace health and safety and environmental requirements 3.3 Tighten wheel hub adjustment and wheel nuts according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Carry out final inspection to ensure correct assembly and operation, and ensure work meets workplace expectations and vehicle is ready for use 4.2 Clean work area and dispose of or recycle materials according to workplace procedures 4.3 Examine tools and equipment and store according to workplace procedures 4.4 Complete workplace documentation 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 relevant sources of wheel hub and braking components information efficiently
Reading skills to:	read and interpret information from manufacturer specifications, workplace procedures and documentation when seeking removal, refitting and adjustment procedures and specifications
Writing skills to:	legibly and accurately fill out workplace documentation when reporting inspection findings, making repair recommendations, and recording parts and material used
Oral communication skills to	- clarify instructions - make repair recommendations
Numeracy skills to:	interpret precision measuring tool scales

	understand numerical divisions in metric and imperial units of measurement for tensioning fasteners
Technology skills to:	- use precision measuring equipment - operate fastener tensioning tools

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AURTTJ012 Remove, inspect and refit wheel hubs and associated brake components (Release 1)	AURTTJ002 Remove, inspect and refit wheel hubs and associated brake components (Release 1)	Wording changes to ensure compliance with Standards for Training Packages. Removal of reference to OHS requirements. Removal of range of conditions. Changed from 'repair' to 'refit' in performance criteria. Addition of oral communication skills. Addition of assessor requirements.	Equivalent

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 AURTTJ012 Remove, inspect and refit wheel hubs and associated brake components

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Performance Evidence

The candidate must demonstrate the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must demonstrate removing, inspecting, refitting and adjusting the following wheel hubs safely according to workplace procedures to meet required outcomes:

- one disc brake hub and associated brake components
- one drum brake hub and associated brake components

Knowledge Evidence

The candidate must demonstrate the following knowledge:

Key policies and procedures relating to the removal, inspection and refitting of wheel hubs and brake components, including:

- how to locate and interpret manufacturer specifications or equivalent documentation, manufacturer procedures and workplace procedures for removing, inspecting and refitting wheel hubs and associated brake components
- the following workplace health and safety requirements relating to removing, inspecting and refitting wheel hubs and associated brake components, including procedures for:
 - lifting and supporting vehicles and wheel hubs
 - handling and controlling brake dust and brake fluids
- the following environmental requirements and procedures:
 - trapping, storing and disposing of brake dust and brake fluid
- procedures for removing, inspecting, refitting and adjusting wheel hubs and associated brake components, including:
 - brake bleeding
 - brake and park brake adjustment
 - wheel bearing lubrication and adjustment
- post-fitting procedures and checks of wheel hubs and associated brake components
- workplace housekeeping and documentation procedures

Wheel hubs and associated brake components technical information, including:

- the purpose of:
 - discs, pads and brake calipers
 - drums, brake linings, wheel cylinders and hydraulic components
 - park braking devices
 - wheel bearing types
- the basic operation of the following braking systems:
 - hydraulic braking systems
 - mechanical braking systems
- the types and uses of brake hydraulic fluids and wheel bearing greases
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Assessment Conditions

The assessment must:

- include access to:
 - an automotive repair workplace or simulated workplace that reflects workplace conditions - where simulation is used, it must reflect real working conditions by modelling industry operating conditions and contingencies, as well as, using suitable facilities, equipment and resources
 - repair orders and workplace instructions relating to remove, inspect and refit activity
 - workplace procedures relating to remove, inspect and refit activity
 - manufacturer specifications or equivalent documentation for wheel hubs and associated brake component
 - vehicle for removing and refitting the wheel hubs and associated brake components specified in the performance evidence
 - tools, equipment and materials appropriate for removing, inspecting and refitting wheel hubs and associated brake components
- be demonstrated in the workplace or in a simulated environment that reflects workplace conditions
- be conducted in a safe environment
- be assessed in compliance with relevant policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed
- confirm consistent performance can be applied in a range of relevant workplace circumstances

Assessor Requirements

Assessors of this unit must:

- satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards

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