



Australian Government

AURBTJ002 Service bicycle wheels and hubs

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 service bicycle wheels and hubs. It involves preparing for the work, selecting and using specialist tools and equipment, inspecting, removing, adjusting and refitting the bicycle wheels and hubs, and completing workplace processes and documentation.

It applies to those working in the bicycle retail, service and repair industry.

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

Competency Field

Bicycle

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 service bicycle wheels and hubs	1.1 Job requirements, including wheel and hub service needs, are determined from workplace instructions 1.2 Bicycle manufacturer specifications and service instructions for wheels and hubs are researched and interpreted 1.3 Condition of bicycle wheels and hubs is inspected for faults and worn or damaged components using visual inspection methods

Elements	Performance Criteria
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	and by comparing measurements against manufacturer specifications 1.4 Hazards associated with the work are identified and risks are managed 1.5 Tools and equipment, including personal protective equipment (PPE), are selected and checked for serviceability 1.6 Work area is prepared and work is planned to avoid damage to bicycle, minimise waste and use time efficiently
2. Carry out service of wheels and hubs	2.1 Bicycle wheels are removed according to workplace procedures and manufacturer specifications 2.2 Wheels and hubs are serviced according to work plan, manufacturer specifications, and <i>safety and environmental requirements</i> 2.3 Serviced wheels and hubs are refitted to bicycle and tested and adjusted as required according to job requirements and workplace procedures
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and bicycle is presented ready for use 3.2 Problems outside own area of responsibility are reported to appropriate person 3.3 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 3.4 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures 3.5 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.
Writing skills to:	legibly and accurately fill out workplace documentation, including service reports.

Skills	Description
Oral communication skills to:	ask questions to clarify instructions and requirements, including with the customer.
Numeracy skills to:	calculate required adjustments and settings.
Technology skills to:	use specialist bicycle tools and equipment in line with workplace procedures.

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>Wheel and hub service</i> must include:	- wheel components: - spoke, disc and tri-spoke wheels - conventional, clincher, tubular, aero, deep dished and composite material wheel rims - hub components: - quick release, allen head and nut wheel fasteners - vertical and horizontal frame lugs - disc, drum and coaster, and internal foot brake hubs - loose ball, cage and roller bearings - lubricants.
<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - manually handling bicycles and their wheels - identifying workplace hazards - using tools and equipment, including PPE - environmental requirements, including procedures for disposing of waste materials.

Unit Mapping Information

Equivalent to AURBTJ2002 Service bicycle wheels and hubs

Links

Companion Volume implementation guides are found in VETNet -

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