



**Australian Government**

**Assessment Requirements for AURBTJ104  
Repair and overhaul bicycle wheels and  
hubs**

**Release: 1**

# Assessment Requirements for AURBTJ104 Repair and overhaul bicycle wheels and hubs

## Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

## 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:

- repair and overhaul at least three different bicycle wheels and hubs according to manufacturer specifications, including:
  - at least one spoke wheel
  - at least one disc wheel.

## 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 repair and overhaul bicycle wheels and hubs, including:
  - information provided by customer and supervisors
  - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to repair and overhaul bicycle wheels and hubs, 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
- work health and safety (WHS) requirements relating to repairing and overhauling bicycle wheels and hubs, including procedures for:
  - manually handling bicycle wheels

- identifying workplace hazards
- using tools and equipment, including personal protective equipment (PPE)
- environmental requirements, including procedures for disposing of waste materials
- key bicycle wheel and hub terminology
- wheel and hub mechanical principles
- types of bicycle wheel and hub systems and components, and their specifications, including:
  - spoke, disc and tri-spoke wheels
  - conventional, clincher, tubular, aero, deep dished and composite material wheel rims
  - quick release, allen head and nut wheel fasteners
  - disc, drum and coaster and internal foot brake hubs
- types and use of tools and equipment used to repair and overhaul bicycle wheels and hubs
- techniques and processes for repairing and overhauling bicycle wheels and hubs, including:
  - selection and checking of personal protective equipment
  - types of wear or faults in bicycle wheel and hubs
  - measuring techniques
  - torque measurement and adjustment of wheels
  - testing procedures.

## 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 bicycle wheels and hubs that they have repaired and overhauled, 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:

- bicycle workplace or simulated workplace
- workplace instructions detailing job requirements
- wheel and hub technical and component specifications
- PPE required to repair and overhaul bicycle wheels and hubs
- three different bicycles requiring wheel and hub system repair and overhaul as specified in the performance evidence
- tools and equipment appropriate for repairing and overhauling bicycle wheels and hubs.

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

## **Links**

Companion Volume Implementation Guide is found on VETNet -

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