



Australian Government

**Assessment Requirements for AURBTB001
Service and repair bicycle mechanical
braking systems**

Release: 1

Assessment Requirements for AURBTB001 Service and repair bicycle mechanical braking systems

Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- service, repair and adjust three of the following different types of bicycle mechanical braking systems:
 - cantilever
 - disc brakes
 - internal coaster
 - drum brakes
 - composite material brake pads
 - mechanical linkages and cables
 - integrated brake and gear levers.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to servicing and repairing bicycle mechanical braking systems, including procedures for:
 - manually handling bicycles and their systems
 - identifying workplace hazards
 - using personal protective equipment (PPE)
 - identifying safe location for testing brakes
- environmental requirements, including procedures for disposing of waste materials
- bicycle braking system terminology
- application, purpose and function of bicycle mechanical braking system principles

- mechanical braking system types specified in the performance evidence
- types and use of tools and equipment used to service and repair bicycle mechanical braking systems
- servicing and repair options, including:
 - on- and off-site servicing
 - servicing and adjusting mechanical braking system components
 - upgrading braking components
- techniques for servicing and repairing bicycle mechanical braking systems, including:
 - identification of bicycle mechanical brake components, materials and specifications
 - fault identification
 - brake repair and adjustment techniques
 - bicycle measuring techniques
 - mechanical brake testing procedures.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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 mechanical braking systems that they have serviced and repaired, 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, including location to test bicycle braking system
- workplace instructions detailing job requirements
- PPE required to service and repair bicycle mechanical braking systems
- manufacturer or brake component specifications and technical information for mechanical braking system
- components and parts to suit different mechanical braking systems
- three different bicycles with mechanical braking systems specified in the performance evidence and requiring repair and servicing
- tools and equipment appropriate for servicing and repairing bicycle mechanical braking systems.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

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