



Australian Government

Assessment Requirements for AURBTB101 Service and repair bicycle mechanical braking systems

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

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:

- service, repair and adjust at least 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

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 service and repair bicycle mechanical braking systems, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to service and repair bicycle mechanical braking systems, 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 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, including:
 - cantilever, disc, internal coaster and drum brakes
 - composite material brake pads
 - mechanical linkages and cables
 - integrated brake and gear levers
- 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

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.

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>