



Australian Government

AURBTB002 Service bicycle hydraulic braking systems

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 hydraulic braking systems. It involves preparing for the work, selecting and using specialist tools and equipment, planning, servicing and testing the bicycle braking system, 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 - Brakes

Elements and Performance Criteria

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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.

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1. Prepare to service bicycle hydraulic braking system	1.1 Job requirements are determined from workplace instructions 1.2 Manufacturer specifications, workplace procedures and other relevant technical information are accessed and interpreted 1.3 Condition of bicycle hydraulic braking system is inspected, using visual and physical methods and compared with 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 service sequence, including post-service testing, is planned to avoid damage to bicycle, minimise waste and use time efficiently
2. Carry out service of braking system	2.1 Hydraulic braking system is serviced according to work plan and safety and environmental requirements 2.2 Hydraulic braking system specifications are checked according to workplace procedures 2.3 Operation of serviced braking system is tested through its full range and adjustments are made as required 2.4 Results and quality issues are reported to authorised personnel as required
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 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 3.3 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures 3.4 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
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Skills	Description
Learning skills to:	locate appropriate sources of information efficiently.
Writing skills to:	legibly and accurately fill out workplace documentation, including service reports.
Numeracy skills to:	identify and calculate bicycle hydraulic brake setting adjustments from specifications.
Problem solving skills to:	identify faults, quality issues and potential problems associated with bicycle hydraulic braking systems during service activities.
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>Hydraulic braking system</i> must include:	- master cylinder - hydraulic lines and linkages - hydraulic fluid - cantilever, disc and drum brakes - integrated brake and gear levers.
<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 systems - identifying workplace hazards - using tools and equipment, including PPE - identifying safe location for testing brakes - environmental requirements, including procedures for disposing of waste materials.

Unit Mapping Information

Equivalent to AURBTB2002 Service bicycle hydraulic braking systems

Links

Companion Volume implementation guides are found in VETNet -

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