



Australian Government

AURBTA002 Adjust bicycles and components

Release: 1

AURBTA002 Adjust bicycles and components

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to adjust bicycles and components. It involves preparing for the work, selecting and checking specialist tools and equipment, adjusting bicycle components to manufacturer specifications, and completing workplace processes and documentation.

It applies to those undertaking a Vocational Education and Training in Schools (VETiS) or pre-vocational qualification as preparation for entering the bicycle retail, service and repair industry. The unit is designed for use in a highly supervised context and is not suitable for use in a vocational qualification.

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

Competency Field

Bicycle

Unit Sector

Technical

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 adjust bicycle	1.1 Job requirements are determined from workplace instructions and bicycle to be adjusted is identified 1.2 Hazards associated with the work are identified and reported to

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.
	workplace supervisor 1.3 Bicycle is inspected to determine component adjustment requirements according to manufacturer specifications and workplace procedures 1.4 Inspection findings, including adjustment recommendations, are reported according to workplace procedures and authorisation to proceed is obtained
2. Carry out adjustments to bicycle components	2.1 Tools and equipment required for adjusting bicycle are identified and checked for serviceability and adjustment method is confirmed 2.2 Adjustments are carried out according to manufacturer specifications, workplace procedures, safety and environmental requirements, and without causing damage to components or systems 2.3 Post-adjustment testing is carried out to ensure safe and correct operation of the bicycle according to 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 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
Learning skills to:	locate appropriate information.
Reading skills to:	interpret adjustment procedures and specifications in manufacturer specifications and workshop literature.
Oral communication skills to:	clarify job requirements and report inspection findings.

Skills	Description
Numeracy skills to:	measure bicycle components and use basic mathematical operations, including addition and subtraction, to calculate distances and deviations from manufacturer specifications.
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>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 - environmental requirements, including procedures for trapping, storing and disposing of waste grease and oils.
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Unit Mapping Information

Equivalent to AURBTA1002 Adjust bicycles

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURBTA002 Adjust bicycles and components

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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:

- adjust the following components on three different bicycles:
 - brakes
 - suspension
 - chain tension
 - seat
 - handlebars and steering
 - gears.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to adjusting bicycles, including procedures for manually handling bicycles
- environmental requirements, including procedures for trapping, storing and disposing of waste grease and oils
- key bicycle terminology
- techniques and procedures for adjusting bicycles, including:
 - bicycle measuring techniques
 - bicycle and adjustment procedures for components specified in the performance evidence
 - bicycle post-adjustment inspection and testing procedures
- types and use of specialist tools and equipment to adjust bicycles
- assembly procedures for bicycles and components.

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 bicycles that they have adjusted, 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
- bicycle manufacturer specifications
- three different bicycles with components requiring adjustments
- tools and equipment appropriate for adjusting bicycles.

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