



Australian Government

AURBTA102 Adjust bicycles and components

Release: 1

AURBTA102 Adjust bicycles and components

Modification History

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

Application

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

The unit 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.

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

Unit Sector

Bicycle Technical

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to adjust bicycle	1.1 Determine job requirements from workplace instructions and identify bicycle to be adjusted 1.2 Identify hazards associated with the work and report to workplace supervisor 1.3 Inspect bicycle to determine component adjustment requirements according to manufacturer specifications and workplace procedures 1.4 Report inspection findings are reported according to workplace procedures and obtain authorisation to proceed
2. Carry out adjustments	2.1 Identify and check tools and equipment required for adjusting

ELEMENTS	PERFORMANCE CRITERIA
to bicycle components	bicycles for serviceability and confirm adjustment method 2.2 Carry out adjustments according to manufacturer specifications, workplace procedures, safety and environmental requirements, and without causing damage to components or systems 2.3 Carry out post-adjustment testing to ensure safe and required operation of the bicycle according to workplace procedures
3. Complete work processes	3.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 3.2 Clear work area and dispose of or recycle materials according to workplace procedures 3.3 Complete documentation according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Numeracy	- Measures bicycle components and uses basic mathematical operations including addition and subtraction - Calculates deviations and tolerances from manufacturer specifications.
Oral communication	Clarifies job requirements and reports inspection findings.
Reading	Interprets adjustment procedures and specifications in manufacturer specifications and workshop literature.
Technology	Uses specialist bicycle tools and equipment in line with workplace procedures.

Unit Mapping Information

Supersedes and is equivalent to AURBTA002 Adjust bicycles and components.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURBTA102 Adjust bicycles and components

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:

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

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 adjust bicycles and components, including:
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to adjust bicycles and components, 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 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
 - reporting procedures and adjustment recommendations
 - 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

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.

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>