



Australian Government

AURBCA002 Select and adjust bicycles to fit riders

Release: 1

AURBCA002 Select and adjust bicycles to fit riders

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to select and adjust a bicycle to suit its rider. It involves gathering rider information and matching the bicycle to the rider's ability and cycling requirements, adjusting the bicycle to fit, 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

Sales and Marketing

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 1.2 Customer cycling requirements and preferences are identified and confirmed 1.3 Physical attributes of customer are assessed through discussion, observation and if appropriate measurements 1.4 Suitable bicycle types and configurations are identified to match

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.
	customer requirements 1.5 Features and benefits of selected bicycle are discussed with customer
2. Adjust bicycle to fit the rider	2.1 Workplace procedures, manufacturer specifications, and safety and environmental requirements are sourced and interpreted 2.2 Hazards associated with the work are identified and risks are managed 2.3 Tools and equipment, including personal protective equipment (PPE), are selected and checked for serviceability 2.4 Bicycle components are adjusted to match rider's attributes and requirements using specialist tools and equipment and according to workplace procedures. 2.5 Customer test ride of bicycle is observed to confirm riding comfort and efficiency, and further adjustments are made 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
Learning skills to:	locate appropriate sources of information efficiently.
Oral communication skills to:	- listen actively and use questioning techniques to gather, clarify and confirm customer requirements and feedback - use bicycle terminology that customers understand and relate to.
Numeracy skills to:	identify customer measurements for bicycle type, size, component and adjustment requirements.

Skills	Description
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.

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>Measurements</i> must include:	- rider height - rider body shape - length of rider's arms and legs.
<i>Bicycles</i> must include:	- with and without gears - with lever-operated brakes.
<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.
<i>Adjusting bicycle components</i> must include:	- checking frame size to match rider's physical attributes - checking and adjusting seat setting to fit rider - checking and adjusting handlebars and stem settings to fit rider - checking and adjusting clip-less pedal settings to match rider's needs.

Unit Mapping Information

Equivalent to AURBCA2002 Select and adjust bicycle to fit rider

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 AURBCA002 Select and adjust bicycles to fit riders

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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:

- select, fit and adjust three different bicycles to suit riders with differing requirements and builds.

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
- procedures for use, maintenance and storage of specialist bicycle tools and equipment, including personal protective equipment (PPE)
- bicycle types, categories and trends
- key bicycle terminology
- bio-mechanical principles of cycling
- techniques and procedures for selecting and adjusting bicycles, including:
 - bicycle components and assembly methods
 - bicycle measuring techniques
 - bicycle and component adjustment procedures
- features of rider comfort on a bicycle, including:
 - stability
 - efficiency
 - aerodynamics.

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 riders they have measured and fitted to a bicycle, e.g. bicycle order.

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 retail workplace or simulated workplace
- workplace instructions
- PPE required when fitting bicycle to rider
- bicycle manufacturer specifications
- three riders with differing requirements and build requiring bicycle fittings
- three different bicycle models, including:
 - with and without gears
 - with lever-operated brakes
- tools and equipment appropriate for selecting and adjusting bicycles to fit riders.

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