



Australian Government

AURBCA102 Select and adjust bicycles to fit riders

Release: 1

AURBCA102 Select and adjust bicycles to fit riders

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 select and adjust a bicycle to suit its rider. The unit 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.

The unit 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.

Unit Sector

Bicycle Sales and Marketing

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 1.2 Identify and confirm customer cycling requirements and preferences 1.3 Assess physical attributes of customer through discussion, observation and if appropriate, measurements 1.4 Identify suitable bicycle types and configurations to match customer requirements 1.5 Discuss features and benefits of selected bicycle with customer
2. Adjust bicycle to fit the rider	2.1 Source and interpret workplace procedures, manufacturer specifications, and safety and environmental requirements 2.2 Identify and manage hazards and risks associated with the

ELEMENTS	PERFORMANCE CRITERIA
	work 2.3 Select and check tools and equipment, including personal protective equipment (PPE) 2.4 Adjust bicycle components to match rider's attributes and requirements using specialist tools and equipment and according to workplace procedures 2.5 Observe customer test ride of bicycle to confirm riding comfort and efficiency and make further adjustments as required
3. Complete work processes	3.1 Make final inspection to ensure work meets workplace expectations and present bicycle 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	Identifies customer measurements for bicycle type, size, component and adjustment requirements.
Oral communication	- Listens actively and uses questioning techniques to gather, clarify and confirm customer requirements and feedback - Uses relatable bicycle terminology.
Planning and organising	- Plans own work requirements - Prioritises actions to achieve required outcomes - Ensures tasks are completed within workplace timeframes.

Unit Mapping Information

Supersedes and is equivalent to AURBCA002 Select and adjust bicycles to fit riders.

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 AURBCA102 Select and adjust bicycles to fit riders

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:

- select, fit and adjust at least three different bicycles to differing requirements and builds with a different rider for each bicycle.

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 select and adjust bicycles to fit riders, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to select and adjust bicycles to fit riders, 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
- procedures for use, maintenance and storage of specialist bicycle tools and equipment, including personal protective equipment (PPE)

- bicycle types, categories and trends, including:
 - with and without gears
 - with lever-operated brakes
 - 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, including:
 - rider height and body shape
 - length of rider's arms and legs
- bicycle and component adjustment procedures, including:
 - 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
- features of rider comfort on a bicycle, including:
 - stability
 - efficiency
 - aerodynamics.

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 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.

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>