



Australian Government

AURBTJ001 Remove, repair and refit bicycle tyres

Release: 1

AURBTJ001 Remove, repair and refit bicycle tyres

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to remove, repair and refit bicycle tyres. It involves preparing for the work, selecting and using specialist tools and equipment, removing the tyres and identifying tyre damage causes, repairing the tyres, inflating them to recommended pressure and fitting, and completing workplace processes and documentation.

It applies to those working in the bicycle retail, service and repair industry. The bicycle tyres to be repaired and refitted include road, off-road, tubed or tubeless.

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

Competency Field

Bicycle

Unit Sector

Technical - Wheels and Tyres

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 remove, repair and refit bicycle tyres	1.1 Job requirements are determined from workplace instructions and customer requirements 1.2 Bicycle <i>rim types</i> and tyre manufacturer specifications and fitting instructions are sourced and interpreted 1.3 Hazards associated with the work are identified and risks are

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.
	managed 1.4 Tools and equipment, including personal protective equipment (PPE), are selected and checked for serviceability 1.5 Work area is prepared and work is planned to avoid damage to bicycle, minimise waste, and use time efficiently
2. Carry out removal, repair and refitting of bicycle tyres	2.1 Repair options and techniques are identified and confirmed 2.2 Removal, repair, refitting and testing of bicycle tyre and tube are carried out according to safety and environmental requirements 2.3 Tyres and tubes are removed, repaired, refitted and inflated without causing damage to bicycle or wheels 2.4 Refitted bicycle tyres and tube are checked against customer requirements and tested according to workplace procedures
3. Complete work processes	3.1 Final inspection is made to ensure work is to workplace expectations and bicycle is presented ready for use 3.2 Problems outside own area of responsibility are reported to appropriate person 3.3 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 3.4 Tools and equipment are checked and stored, and faulty equipment is identified, tagged and isolated according to workplace procedures 3.5 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.
Writing skills to:	legibly and accurately fill out workplace documentation, including repair reports.
Oral communication skills to:	ask questions to clarify instructions and requirements, including with the customer.

Skills	Description
Numeracy skills to:	- interpret stock codes and identify tyre sizes - interpret and apply tyre inflation pressures from 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>Rim types</i> must include:	- steel - aluminium - composite material.
<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 tyres - identifying workplace hazards - using tools and equipment, including PPE - environmental requirements, including procedures for disposing of waste materials.

Unit Mapping Information

Equivalent to AURBTJ2001 Remove, repair and fit bicycle tyres

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 AURBTJ001 Remove, repair and refit bicycle tyres

Modification History

Release	Comment
Release 1	New unit of competency.

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:

- remove, repair, refit, inflate and test five different bicycle tyres, including for the following types of bicycles:
 - road bicycle
 - hybrid
 - BMX
 - commuter.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to removing, repairing and refitting bicycle tyres, including procedures for:
 - manually handling bicycles and tyres
 - identifying workplace hazards
 - using tools and equipment, including personal protective equipment (PPE)
- environmental requirements, including procedures for disposing of waste materials
- key bicycle terminology
- types and use of tools and equipment used to remove, repair and refit bicycle tyres
- techniques for removing, repairing and refitting bicycle tyres, including:
 - bicycle types and categories
 - tyre and tube sizes
 - rim size and rim material type
 - inflation pressures and test procedures.

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 bicycle tyres that they have removed, repaired and refitted, 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 detailing job requirements
- manufacturer tyre and rim specifications and fitting instructions
- PPE required to remove, repair and refit bicycle tyres
- bicycle wheels, tyres and tubes for the types of bicycles specified in the performance evidence
- tools and equipment appropriate for removing, repairing, refitting and inflating bicycle tyres.

Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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