



Australian Government

AURBTK2001 Use and maintain specialised bicycle repair tools

Release 1

AURBTK2001 Use and maintain specialised bicycle repair tools

Modification History

Release	Comment
Release 1	New unit of competency

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes required to select, use and maintain specialised tools used for bicycle service and repair. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.
-----------------	---

Application of the Unit

Application of the unit	Work applies to the use, service and maintenance of specialised tools in a bicycle workshop.
-------------------------	--

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability skills	This unit contains employability skills.
----------------------	--

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Select and prepare specialised tools	1.1. <i>Specialised bicycle repair tools</i> are selected to meet <i>workplace requirements</i> 1.2. Tools are prepared for use according to manufacturer and component supplier specifications 1.3. <i>Workplace Health and Safety (WHS) requirements</i> are identified and applied
2. Use specialised tools	2.1. Tools are used to produce outcomes according to job requirements 2.2. Tools are used in a safe manner to prevent injury to self and others 2.3. Tools are used in a manner that does not cause damage to other workplace equipment
3. Service and maintain specialised tools	3.1. Tools are checked against manufacturer and component supplier recommendation to ensure safe operation 3.2. Service and <i>maintenance operations</i> are carried out according to industry, workplace and WHS requirements 3.3. Tools and equipment are checked and faulty items are identified and tagged
4. Store and secure specialised tools	4.1. Tools and equipment are checked, cleaned and stored according to workplace expectations 4.2. Service schedule documentation is completed according to workplace procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- communication skills to:
 - follow verbal instructions
 - communicate information related to the use of tools and equipment
- learning skills to identify sources of information, assistance and expert knowledge
- literacy skills to:
 - read and follow bicycle repair instruction
 - read and apply operating procedures
- numeracy skills to correctly interpret metric and imperial measurement systems
- planning and organising skills to:
 - identify risk factors to minimise risk to self and others
 - contribute to activities which implement and follow workplace procedures
- problem-solving skills to:
 - recognise a workplace problem or potential problem
 - refer problems outside area of responsibility to appropriate person
 - identify tool and equipment defects
- self-management skills to:
 - locate and identify appropriate specialised bicycle tools and equipment
 - recognise own limitations and seek advice
 - follow workplace policies and documentation, such as manufacturer specification, industry codes of practice and workplace procedures
- technical skills to select, use, maintain and store specialised bicycle tools
- technology skills to use workplace technology to assist with work practices.

Required knowledge

- WHS regulations, requirements, equipment and material, and personal safety requirements related to using specialised bicycle tools and equipment
- application and operation of specialised bicycle repair tools
- methods of identifying faults in specialised bicycle repair tools
- maintenance and storage procedures of specialised bicycle repair tools.

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy all of the requirements of the performance criteria and required skills and knowledge.

A person who demonstrates competency in this unit must be able to:

- observe safety procedures and requirements
- select appropriate specialised bicycle repair tools
- carry out a minimum of three bicycle service or repair tasks using specialised bicycle repair tools
- maintain and store specialised bicycle repair tools.

Context of, and specific resources for assessment

Competency is to be assessed in the workplace or a simulated workplace environment that accurately reflects performance in a real workplace setting.

Assessment is to occur:

- use workplace practices and procedures
- follow WHS requirements
- applying environmental policy

Assessment is to comply with relevant:

- regulatory requirements
- Australian standards
- industry codes of practice

The following resources must be made available for the assessment of this unit:

- bicycles and bicycle components that require specialised bicycle repair tools
- specialised bicycle repair tools
- specifications and workplace instructions.

Method of assessment

Assessment must satisfy the endorsed Assessment Guidelines of this Training Package.

Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant

EVIDENCE GUIDE

contexts) together with the application of required skills and knowledge.

Assessment methods must be by direct observation of tasks and include questioning on required skills and knowledge to ensure correct interpretation and application.

Competence in this unit may be assessed in conjunction with other units which together form part of a holistic work role.

Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate the needs of diverse clients.

Assessment processes and techniques must be culturally sensitive and appropriate to the language, literacy and numeracy capacity of the candidate and the work being performed.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

<i>Specialised bicycle repair tools</i> may include:	• repair stand • chain tool • spoke wrench • tyre levers • pedal wrench • metric and imperial cone wrenches • cassette lock-ring remover • chain whip • bottom bracket cartridge tools • headset wrenches • third hand • crank arm bolt wrench • crank arm remover (puller) • chain-ring bolt wrench • suspension pump • clipless pedal axle removal tool • trueing jig • dishing gauge • spoke tensionometer • schrader valve tool • dropout alignment tool • derailleur hanger alignment tools • headset installation tools.
<i>Workplace requirements</i> may include:	• workplace reporting and recording procedures • safe work procedures • quality policies and procedures • sustainability, environment, equal opportunity and anti-discrimination • manufacturer specifications • work instruction • industry codes of practice.
<i>Workplace health and safety (WHS) requirements:</i>	• are those prescribed under legislation, regulations, codes of practice, and workplace policies and procedures • may include:

RANGE STATEMENT

	• protective clothing and equipment • use of tools and equipment • handling of material • use of fire-fighting equipment • first aid equipment • hazard control, including control of hazardous materials and toxic substances.
<i>Maintenance operations</i> may include:	• routine maintenance to specialised tools • minor repairs to tools and equipment • performing equipment calibration • documenting and tagging faulty equipment.

Unit Sector(s)

Competency field	Bicycle
Unit sector	Technical – Tools and Equipment

Custom Content Section

Not applicable.