



Australian Government

AURBTA007 Provide mechanical support during cycling events

Release: 1

AURBTA007 Provide mechanical support during cycling events

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to work effectively as a bicycle mechanic in a support team for a professional or amateur cycling event. It involves preparing for the work, selecting and using specialist tools and equipment, planning mechanical support for an event, setting up a mobile work station, adjusting and repairing bicycles and components, 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

Technical

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. Establish cycling event requirements	1.1 Job role and responsibilities for the relevant event are identified 1.2 Event regulations, team expectations and communication procedures relevant to own role are identified 1.3 <i>Safety and environmental requirements</i> and workplace procedures are sourced and interpreted

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.
2. Prepare for event	2.1 Event information is confirmed 2.2 Tools and equipment , including personal protective equipment (PPE), are selected and checked for serviceability 2.3 Spare parts, wheels and bicycles are selected and prepared for the event 2.4 Components, tools, equipment and personal items are prepared for transportation to event according to team requirements and event conditions
3. Provide mechanical support at event	3.1 Temporary work station and equipment are set up according to event and safety and environmental requirements 3.2 Support vehicle is prepared as required according to team and event requirements 3.3 Hazards associated with the work are identified and risks are managed 3.4 Bicycle repairs , adjustments and maintenance are carried out within designated timeframes, according to plans developed in conjunction with other members of the support team, and in line with event regulations 3.5 Team management is consulted as required
4. Complete work processes	4.1 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.2 Work station is packed up and components, tools, equipment and personal items are prepared for transportation according to workplace and safety requirements 4.3 Event and 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 work orders, job cards and event insurance forms.

Skills	Description
Oral communication skills to:	- ask questions to clarify instructions and requirements, including with team and event personnel - report event problems and feedback to management.
Numeracy skills to:	- use basic mathematical operations to calculate required adjustments, including matching component codes, serial numbers and manufacturer specifications - use bicycle measuring equipment, including metric and imperial units of measurement.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within required timeframes.
Problem solving skills to:	identify bicycle defects and repair requirements.
Self-management skills to:	diagnose and complete required bicycle repairs, adjustments and maintenance when working under event conditions and within tight timeframes.
Teamwork skills to:	work collaboratively with others in a cycling support team.
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>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, components, tools and equipment - identifying hazards - using PPE - environmental requirements, including procedures for disposing of waste materials.
<i>Information</i> must include:	- event location - event management - bicycle brand and component specification and websites - event rules and regulations.
<i>Tools and equipment</i> must	portable bicycle stands

include:	• hand tools and spare parts • lubricants and hydraulic fluid • pump and compressor.
Temporary work station must include:	• floor and matting • tables, benches and bicycle stands • lighting • bicycle storage • location for spare parts and components • specialist tools and equipment • cleaning agents.
Bicycle repairs must include:	• wheel, tyres and tubes • brakes, chains, gears, steering and suspension components.
Team management consultation must include:	• seeking assistance when difficulties outside scope of own role arise • advising of identified hazards • providing feedback to inform team performance.

Unit Mapping Information

Equivalent to AURBTA3007 Provide mechanical support to cycling events

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 AURBTA007 Provide mechanical support during cycling events

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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:

- set up a temporary mobile mechanical support work station during two different cycling events
- adjust and repair two bicycles during the above events, in which the work must involve:
 - identifying bicycle components to be repaired or replaced
 - applying correct repair, replacement, adjustment and testing procedures
 - working under pressure within required event timeframes.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to providing mechanical support during cycling events, including procedures for:
 - manually handling bicycles, components, tools and equipment
 - identifying hazards
 - using personal protective equipment (PPE)
- environmental requirements, including procedures for disposing of waste materials
- bicycle mechanical principles
- key bicycle components and their specifications
- cycling event categories and bicycle types, including:
 - road, track and mountain
 - community and recreational
- key bicycle and cycling event terminology
- cycling governing bodies and their relevant regulations

- location and content of workplace procedures relating to adjusting and repairing bicycles during cycling events
- optimum set-up and layout of temporary work station at a cycling event
- types and use of tools and equipment used by mechanical support teams
- repair and maintenance techniques for bicycles and components in a race or event environment, including:
 - testing and adjustment methods
 - component repair, replacement, adjustment and tensioning techniques.

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 and where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the cycling events where they have provided mechanical support, e.g. cycling event repair reports.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- temporary workstation at two different cycling events or simulated event locations, including:
 - floor and matting
 - tables, benches and bicycle stands
 - lighting
 - bicycle storage
- workplace instructions
- workplace and cycling event information
- PPE for mechanical support
- bicycle components
- bicycles that require repair and adjustment at cycling events
- tools and equipment appropriate for providing mechanical support during cycling events, including:
 - portable bicycle stands
 - hand tools and spare parts
 - lubricants and hydraulic fluid
 - pump and compressor.

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