



Australian Government

Assessment Requirements for AURBTR001 Service electric power-assisted bicycles

Release: 1

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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:

- service three different electric power-assisted bicycles, in which the work involves:
 - battery testing and charging
 - checking operation of controller
 - checking wiring
 - checking connectors at motor plug
 - testing brake cut-outs, throttle and pedal assist sensor (PAS).

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to servicing electric power-assisted bicycles, including procedures for:
 - manually handling bicycles
 - identifying workplace hazards
 - using tools and equipment, including personal protective equipment (PPE)
- environmental requirements, including procedures for disposing of waste materials
- electric power-assisted bicycle terminology
- operating principles of electric power-assisted bicycles, including:
 - throttle response
 - power and performance
 - pedal assist function
 - throttle function

- function of electric power-assisted bicycle components specified in the range of conditions
- types and use of tools and equipment used to service electric power-assisted bicycles
- techniques and processes for servicing electric power-assisted bicycles, including:
 - identification of electric power-assisted bicycle components and specifications
 - fault identification
 - bicycle measuring techniques
 - adjustment techniques
 - testing procedures
- servicing options, including:
 - on- and off-site servicing
 - servicing and adjusting components
 - upgrading components.

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 electric power-assisted bicycles that they have serviced, e.g. service 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, including location to test bicycles
- workplace instructions detailing job requirements
- workplace procedures relating to the service of electric power-assisted bicycles
- electric power-assisted bicycle manufacturer specifications
- PPE required to service electric power-assisted bicycles
- three different electric power-assisted bicycles requiring service and maintenance
- tools and equipment appropriate for servicing electric power-assisted bicycles.

Links

Companion Volume implementation guides are found in VETNet -

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

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