



Australian Government

Assessment Requirements for AURBTQ001 Service bicycle drivetrain systems

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 the following bicycle drivetrain systems on three different bicycles:
 - derailleur
 - internal hub gear system
 - integrated brake and gear lever system
 - fixed and freewheel rear sprockets.

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 bicycle drivetrain systems, including procedures for:
 - manually handling bicycles and drivetrain systems
 - identifying workplace hazards
 - using tools and equipment, including personal protective equipment (PPE)
- environmental requirements, including procedures for disposing of waste materials
- key bicycle terminology relating to drivetrain systems
- types of bicycle drivetrain systems and their system components, including:
 - cranks and pedals
 - chains and chain wheels
 - cassette, cartridge and internal hub gear systems
 - manual mechanical, automatic, electro-mechanical and electric gear changers
 - integrated brake and gear lever systems

- fixed and freewheel rear sprockets
- types and use of tools and equipment used to service bicycle drivetrain systems
- techniques and processes for servicing bicycle drivetrain systems, including:
 - identification of bicycle drivetrain components, materials and specifications
 - use of drivetrain lubricants
 - fault identification
 - drivetrain system measuring techniques
 - drivetrain adjustment techniques
 - drivetrain testing 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 drivetrain systems 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 bicycle drivetrain system
- workplace instructions detailing job requirements
- PPE required to service bicycle drivetrain systems
- drivetrain component specifications
- drivetrain components specified in the performance evidence
- three different bicycles requiring drivetrain servicing and testing
- tools and equipment appropriate for servicing bicycle drivetrain systems.

Links

Companion Volume implementation guides are found in VETNet -

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

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