



**Australian Government**

**Assessment Requirements for AURJTX002  
Diagnose and repair motorcycle manual  
transmissions**

**Release: 1**

# Assessment Requirements for AURJTX002 Diagnose and repair motorcycle manual transmissions

## 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 standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- diagnose and repair a fault in two different motorcycles with different manual transmissions, in which the work must involve removing, dismantling, reassembling and refitting the transmissions.

## Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to diagnosing and repairing motorcycle manual transmissions, including procedures for handling transmission fluids and clutch materials
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from transmissions
- operating principles of motorcycle manual transmissions and associated components, including:
  - gears types
  - gear ratios
- application, purpose and operation of motorcycle manual transmissions and components, including:
  - transmission types, including:
    - vertical split-type crankcase
    - horizontal split-type crankcase
    - cassette-type
  - sliding gear transmissions, including:

- dog clutches
- shifter drums
- cam plates
- constant-mesh transmissions, including ball lock-type systems
- quick shifters
- types and compatibility of transmission system oils and additives
- diagnostic testing procedures for motorcycle manual transmissions, including procedures for analysing:
  - component wear
  - abnormal system noise
- repair procedures for motorcycle manual transmissions, including procedures for removing, dismantling, reassembling, refitting and adjusting components
- post-repair testing procedures for motorcycle manual transmissions.

## 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 motorcycle manual transmissions that they have worked on, 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:

- motorcycle repair workplace or simulated workplace
- workplace instructions
- manufacturer motorcycle manual transmission specifications
- two different motorcycles with different manual transmissions with faults
- diagnostic equipment for motorcycle manual transmissions
- tools, equipment and materials appropriate for repairing motorcycle manual transmissions.

## 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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