Assessment Requirements for AURJTX003 Diagnose and repair motorcycle automatic transmissions

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 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 automatic 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 automatic 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 automatic transmissions and associated components, including:
  - gears types
  - gear ratios
- application, purpose and operation of the following motorcycle automatic transmissions and components, including:
  - continuously variable transmissions (CVT), including:
    - wet types
    - dry types
  - semi-automatic transmissions
  - dual clutch transmissions

- automatic transmission electronic components, including:
    - electronic control module
    - input sensors, including vehicle speed sensor, throttle position sensor, mass air flow (MAF) sensor, manifold absolute pressure (MAP) sensor, transmission range sensor, engine speed sensor and temperature sensors
    - electronic control module outputs, including indicator lamps, shift solenoids and pressure control solenoids
  - types and compatibility of transmission system oils and additives
  - types of diagnostic trouble codes and procedures for accessing codes
- diagnostic testing procedures for motorcycle automatic transmissions, including procedures for analysing:
    - component wear
    - abnormal system noise
- repair procedures for motorcycle automatic transmissions, including procedures for removing, dismantling, reassembling, refitting and adjusting components
- post-repair testing procedures for motorcycle automatic 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 automatic 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 automatic transmission specifications
- two different motorcycles with different automatic transmissions with faults
- diagnostic equipment for motorcycle automatic transmissions
- tools, equipment and materials appropriate for repairing motorcycle automatic transmissions.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-7804 5ec695b1

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