



Australian Government

Assessment Requirements for AURJTX103 Diagnose and repair motorcycle automatic transmissions

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

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

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to diagnose and repair motorcycle automatic transmissions, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair motorcycle automatic transmissions, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- workplace health and safety (WHS) requirements relating to diagnosing and repairing motorcycle automatic transmissions, including procedures for handling transmission fluids and clutch materials

- environmental requirements relating to diagnosing and repairing motorcycle automatic transmissions, including procedures for trapping, storing and disposing of fluids released from automatic transmissions
- operating principles of motorcycle automatic transmissions and associated components, including:
 - gears types
 - gear ratios
- purpose and operation of 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:
 - 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

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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