



Australian Government

Assessment Requirements for AURKTX104

Diagnose and repair continuously variable 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 machines with continuously variable transmissions
- remove, refit or replace at least one of the above 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 continuously variable transmissions, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair continuously variable 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 continuously variable transmissions, including procedures for:
 - tagging out and isolating machines, and wheel chocking
 - working with high pressure fluid hazards

- using lifting, jacking and supporting equipment
- environmental requirements relating to diagnosing and repairing continuously variable transmissions, including procedures for trapping, storing and disposing of hydraulic fluid released from continuously variable transmissions
- operating principles of continuously variable transmissions and associated components, including:
 - hydrostatic systems
 - countershaft transmissions
 - planetary transmissions
 - transmission control valves and solenoids
 - hydraulic circuits and schematics
 - electronic control system
- purpose and operation of continuously variable transmissions and components, including:
 - power flows, including compound planetary transmissions
 - hydrostatic components
 - hydraulic components and hydraulic control components, including:
 - oil pumps
 - air pumps
 - filters
 - hydraulic valves
 - power train electronic control system
 - mechanical components, including clutch packs and compound gear sets
 - continuously variable electronic control system, including:
 - sensors
 - solenoids
 - electronic controllers
 - calibration
- diagnostic testing procedures for continuously variable transmissions that comply with manufacturer specifications, including:
 - accessing and interpreting scan tool system data, including:
 - diagnostic trouble codes (DTCs)
 - live data
 - waveforms
- repair procedures for continuously variable transmissions, including procedures for removing, replacing and adjusting them
- post-repair testing procedures for continuously variable 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 continuously variable 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:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer continuously variable transmission specifications
- two different machines with continuously variable transmission faults
- diagnostic equipment for continuously variable transmissions
- tools, equipment and materials appropriate for repairing and adjusting continuously variable 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>