



Australian Government

Assessment Requirements for AURHTX002

Inspect, test and replace heavy vehicle automatic transmissions

Release: 1

Assessment Requirements for AURHTX002 Inspect, test and replace heavy vehicle automatic 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:

- inspect, test and replace the automatic transmissions of two different heavy vehicles or machinery.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting, testing and replacing heavy vehicle automatic transmissions, including procedures for:
 - using lifting and supporting equipment when working with transmissions
 - manually handling heavy vehicle transmissions
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from transmissions
- operating principles of heavy vehicle automatic transmissions, including:
 - fluid couplings
 - mechanical systems, including:
 - gear types
 - gear ratios and torque
 - simple and compound planetary gear trains
 - gear range and transfer case power flows
 - hydraulic systems and components
 - electronic systems, including:
 - electronic control units (ECU)

- electronic sensors
- solenoids
- inspection procedures for heavy vehicle automatic transmissions, including:
 - visual, aural and functional assessment, including:
 - fluid leakage
 - oil condition
 - speed and range selection
 - wear, damage, and corrosion
 - electrical circuit faults
- testing procedures for heavy vehicle automatic transmissions, including:
 - stall testing
 - pressure testing
 - scan tool testing
- replacement procedures for heavy vehicle automatic transmissions
- post-replacement testing procedures for heavy vehicle automatic transmissions, including operational testing.

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 automatic transmissions of heavy vehicles or machinery that they have inspected, tested and replaced, 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 automatic transmission specifications
- two different heavy vehicles or machinery with automatic transmissions requiring testing and replacement
- test equipment for heavy vehicle automatic transmissions
- tools, equipment and materials appropriate for inspecting, testing and replacing heavy vehicle automatic transmissions.

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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