



Australian Government

Assessment Requirements for AURTTX009 Overhaul 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:

- overhaul three different automatic transmissions, one of which must be a transaxle.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to overhauling automatic transmissions, including procedures for using:
 - specialised automatic transmission overhaul tools, equipment and machinery
 - chemicals and toxic substances
 - automatic and mechanical lifting equipment
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from automatic transmissions
- types, characteristics and operating principles of automatic transmissions, including transaxles and conventional transmissions
- automatic transmission overhaul procedures, including:
 - methods for cleaning and preparing automatic transmissions for overhaul
 - transmission dismantling procedures
 - transmission component inspection, measuring and evaluation procedures, including:
 - non-destructive testing procedures, including dye penetrant testing and magnetic particle testing
 - transmission case damage and alignment to engine

- measuring tolerances and clearances of components, including gear train wear and damage, clutch packs, brake bands, oil pumps, valve body and associated components, extension housing seal and bushing, and bearings
- methods for evaluating electronic actuators, including solenoids
- transmission component repair and adjustment procedures, including component machining procedures
- transmission assembly procedures, including procedures for measuring and adjusting component tolerances, including:
 - clutch packs
 - brake bands and servos
 - gear train preloads and end floats
 - final drive bearing preload
- post-overhaul testing procedures for 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 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:

- mechanical repair workplace or simulated workplace
- workplace instructions
- manufacturer automatic transmission specifications
- three different automatic transmissions requiring overhaul, one of which must be a transaxle
- tools, equipment and materials appropriate for overhauling and adjusting 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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