



Australian Government

Assessment Requirements for AURTTX012 Dismantle and assemble conventional manual 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:

- dismantle and re-assemble a minimum of two different conventional manual transmissions.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- key aspects of work health and safety (WHS), occupational health and safety (OHS) and environmental requirements, including:
 - use of personal protective equipment, including safety glasses, ear protection and safety footwear
 - procedures for disposing of used oil and lubricants
- types of manual transmissions, including:
 - conventional
 - transaxle
- transmission operating principles, including:
 - types of gears
 - gear ratios
 - transmission bearings, seals and gaskets
 - transmission oils
- construction and operation of transmissions, including:
 - power flows
 - gear selector mechanisms and interlocks
 - synchromesh units
- transmission dismantling procedures
- transmission inspection procedures

- transmission reassembly procedures
- work area clean-up and maintenance requirements.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to dismantling and re-assembling a conventional manual transmission 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 workplace or simulated workplace
- personal protective equipment appropriate to the workplace
- two different conventional manual transmissions with at least four gears
- tools and special equipment, including lifting equipment.

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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