



Australian Government

Assessment Requirements for AURMTE001 Test engines using a dynamometer

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:

- carry out dynamometer testing on two different engines.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to testing engines using a dynamometer, including procedures for:
 - connecting and securing engines to dynamometers
 - dealing with exhaust gases from engines
 - dealing with high levels of noise
- environmental requirements, including procedures for trapping, storing and disposing of fluids released during engine testing
- application, purpose and operation of engine dynamometers, including associated hardware and software
- engine and chassis dynamometer testing procedures, including:
 - dynamometer preparation procedures
 - engine connection and securing procedures
 - vehicle connection and securing procedures
 - test environment correction factors
 - dynamometer data interpretation and analysis
- operator dynamometer maintenance procedures
- engine performance and dynamometer terminology.

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 engines that they have tested using a dynamometer, 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
- two different engines requiring testing using a dynamometer
- engine or chassis dynamometer
- tools and equipment appropriate for connecting, securing and disconnecting engines to dynamometers.

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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