



Australian Government

Assessment Requirements for AURETK003 Operate electrical test equipment

Release: 2

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Modification History

Release	Comment
Release 1	New unit of competency
Release 2	Minor typographical errors corrected

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:

- correctly and safely operate electrical test equipment to test electrical circuits on a minimum of two different vehicles.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- key aspects of work health and safety (WHS) and, occupational health and safety (OHS) requirements when operating electrical test equipment, including:
- procedures for the correct use of personal protective equipment, including safety glasses, ear protection and safety footwear
- procedures for the correct use of tools
- identification of electrical hazards
- procedures for operating electrical test equipment
- meaning of electrical terms, including:
 - voltage
 - amperage
 - watts
 - resistance
- theory of electrical circuits, including:
 - Ohm's law
 - Watt's law
- circuit types, including series and parallel
- electrical component symbols

- types of electrical circuits in vehicles, including electrical components
- types of electrical circuit diagrams
- types, application and operation of electrical test equipment, including:
 - 12 volt test lights and LED test lights
 - ammeters
 - voltmeters
 - multimeters
 - ohmmeters
- procedures for testing electrical circuits on vehicles
- procedures for identifying and rectifying faults
- work area clean-up and maintenance requirements.

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.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to operating electrical test equipment, 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
- electrical test equipment, including:
 - 12 volt test light
 - ammeter
 - voltmeter
 - ohmmeter
 - multimeter
 - LED test light
- two vehicles with operational electrical circuits.

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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