



Australian Government

**Assessment Requirements for AURETK001
Identify, select and use low voltage
electrical test equipment**

Release: 1

Assessment Requirements for AURETK001 Identify, select and use low voltage electrical test equipment

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 standard defined in the unit's elements, performance criteria, range of conditions and foundation skills:

- use a test light or probe to check the voltage supply at three different points of a basic low voltage (LV) electrical circuit and earth return at two different points of the circuit
- use a digital multimeter to check voltage, current and resistance measurements within a basic electrical circuit
- use a circuit continuity tester and test three different electrical circuits between a power source, including:
 - one fuse
 - one lamp or heating element
 - one motor control device.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to identifying, selecting and using LV electrical test equipment, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - identifying hazards and controlling risks associated with wearing jewellery while working around high current wiring systems
- location and content of manufacturer specifications and workplace procedures, including:
 - LV test equipment selection procedures
 - basic checking procedures for automotive LV electrical test equipment
 - checking, identification and isolation procedures for faulty equipment

- types, characteristics, uses and limitations of automotive LV electrical test equipment, including:
 - multimeters
 - test lights, including resistive and light emitting diode (LED) test probes
 - circuit continuity testers
- procedures for testing electrical systems, including:
 - accessing electrical terminals and using test probes without damaging connectors, fuse holders or wiring
 - checking resistance, current flow and voltage drop of system circuits
- procedures for identifying and tagging damaged electrical test equipment.

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 LV electrical test equipment they have identified, selected and used, 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 service repair workplace or simulated workplace
- manufacturer specifications and operator instructions for LV electrical test equipment
- materials and equipment relevant to using and checking automotive LV electrical test equipment
- LV electrical test equipment, including:
 - test lights and probes
 - circuit continuity testers
 - digital multimeters
- electrical components and circuits requiring the use of LV electrical test equipment, as specified in the performance evidence.

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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