



Australian Government

Assessment Requirements for AURETR003

Identify automotive electrical systems and components

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

- identify, locate and demonstrate knowledge of the operation of the following electrical systems while carrying out workplace activities:
 - vehicle electrical power supplies
 - ignition system
 - fuel delivery system
 - charging system
 - starting system
 - lighting system
 - fuses and circuit breakers
 - wiring looms and harnesses.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to applying automotive electrical system fundamentals, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using tools and equipment
 - following workplace safety procedures
- basic theory and principles of automotive electrical systems, including:
 - alternating current (AC)
 - direct current (DC)

- Ohm's law
- identification, function and basic operation of vehicle electrical systems and components, including:
 - vehicle electrical power supplies
 - ignition system
 - fuel delivery system
 - charging system
 - starting system
 - lighting system
 - body electrical systems
 - fuses and circuit breakers
 - wiring looms and harnesses
- automotive terminology relating to electrical systems.

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 automotive electrical system information that they have applied, 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
- workshop or task instructions
- information regarding basic electrical principles and fundamentals
- information regarding vehicle electrical systems and components
- workplace safety equipment, including PPE
- a vehicle with the automotive electrical systems specified in the performance evidence
- automotive tools and equipment relating to workplace activities being carried out.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

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