



Australian Government

**Assessment Requirements for AURETR034
Develop and apply electrical system
modifications**

Release: 1

Assessment Requirements for AURETR034 Develop and apply electrical system modifications

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 this unit's elements, performance criteria, range of conditions and foundation skills:

- develop and apply one of the following significant and non-routine modifications on the electrical system of two different vehicles, vessels, machinery or equipment:
 - adapt or modify electrical system to a significantly changed capability
 - adapt electrical system for different work conditions
 - modify or install a significant electrical system for a special purpose.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to developing and applying electrical system modifications, including procedures for:
 - identifying hazards and controlling risks associated with:
 - working on vehicle ignition systems with injector high voltages
 - wearing jewellery while working around high current wiring systems
 - using personal protective equipment (PPE) and hand tools
- location and content of manufacturer specifications, workplace procedures and other relevant technical information relating to modifying electrical systems
- principles and processes involved in planning and implementing modifications to electrical systems
- types, functions, operation and limitations of the electrical systems being modified
- types, functions, operation and limitations of diagnostic testing equipment required for electrical system modifications, including scan tools and oscilloscopes

- requirements of Australian Design Rules (ADRs) and Vehicle Safety Bulletins (VSBs) relating to electrical system modifications
- procedures for documenting and reporting the modification specifications and outcomes.

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 electrical systems that they have modified, 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
- workplace instructions
- manufacturer electrical system specifications
- ADRs and VSBs relating to electrical system modifications
- two different vehicles, vessels, machinery or equipment requiring electrical system modification
- diagnostic equipment for electrical system modifications, including digital multimeters and scan tools
- tools, equipment and materials appropriate for completing electrical system modifications.

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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