



Australian Government

Assessment Requirements for AURETR103 Identify automotive electrical systems and components

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- identify, locate and check the operation of the following basic electrical systems while carrying out required 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

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- workplace health and safety (WHS) requirements relating to the identification of automotive electrical systems, 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
- basic automotive terminology relating to electrical systems.

Assessment Conditions

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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