



Australian Government

Assessment Requirements for AURETR013 Inspect, test and service charging systems

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:

- inspect, test and service the charging systems of three different vehicles, vessels or machinery, in which the work must involve checking:
 - system output
 - system control circuit
 - system wiring.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting, testing and servicing charging systems, including procedures for:
 - selecting and using personal protective equipment (PPE), including clothing, and eye and hand protection
 - working safely with high current electrical systems
- environmental requirements, including procedures:
 - found in safety data sheets (SDS) relating to toxic and corrosive substances
 - for recycling and disposing of replaced charging system components
- identification and function of charging system components, including:
 - battery types, including:
 - lead acid and deep cycle batteries
 - maintenance-free batteries
 - generators

- alternators
- basic operating principles of charging systems, including:
 - using mechanical energy to produce electrical energy
 - charging battery and supplying power demands of vehicle
- inspection procedures for charging systems, including visual, aural and functional assessments of:
 - component damage and wear
 - component corrosion
- testing procedures for charging systems, including:
 - accessing electrical terminals and using test probes without damaging connectors, fuse holders or wiring
 - measuring charging system output under load
- servicing procedures for charging systems, including:
 - changing and adjusting drive belts
 - cleaning and tightening terminals
 - checking gauges and warning devices for operation
- post-service testing procedures, including confirming that charging system is operating to manufacturer specifications.

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 charging systems that they have inspected, tested and serviced, 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 repair workplace or simulated workplace
- workplace instructions
- manufacturer charging system specifications
- PPE, including clothing, and eye and hand protection
- three different vehicles, vessels or machinery with charging systems requiring servicing
- tools and equipment appropriate for inspecting, testing and servicing charging systems, including multimeter.

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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