



Australian Government

Assessment Requirements for AURETR014 Inspect, test and service starting 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 three different vehicle, vessel or machinery starting systems, in which the work must involve checking:
 - starter motor and solenoid
 - ignition switch to starter control circuit
 - battery to starter motor 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 starting 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 starting system components
- identification and function of starting system components, including:
 - starter motor
 - starter solenoid
 - starter control circuits, including:
 - key ignition

- push button start
- proximity transponder
- automatic stop and start systems
- immobiliser
- interlocks
- basic operating principles of starting systems, including:
 - changing electrical energy to mechanical energy
 - mechanical advantage between ring gear and flywheel
 - basic circuit operation
- inspection procedures for starting systems, including visual, aural and functional assessments of:
 - component damage and wear
 - component corrosion
- testing procedures for starting systems, including:
 - accessing electrical terminals and using test probes without damaging connectors, fuse holders or wiring
 - measuring starting system current draw
- servicing procedures for starting systems, including cleaning and tightening terminals
- post-service testing procedures, including confirming that starting 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 starting 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 starting system specifications
- PPE, including clothing, and eye and hand protection
- three different vehicles, vessels or machinery with starting systems requiring servicing
- tools and equipment appropriate for inspecting, testing and servicing starting systems, including load tester, inductive ammeter and 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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