



Australian Government

Assessment Requirements for AURETR021

Inspect, service and repair electronic management, monitoring and tracking systems

Assessment Requirements for AURETR021 Inspect, service and repair electronic management, monitoring and tracking systems

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

- inspect, service and repair three of the following electronic management, monitoring and tracking systems:
 - receivers
 - displays
 - electronic controllers
 - steering actuators
 - telematics
 - connectors 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 inspecting, servicing and repairing electronic management, monitoring and tracking systems, including procedures for:
 - 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 electronic management, monitoring and tracking system components

- operating principles of electronic management, monitoring and tracking systems, including:
 - system overview
 - global positioning system (GPS)
 - electronic sensors and processors
 - electrical actuators
- application, purpose and operation of electronic management, monitoring and tracking systems, including:
 - receivers
 - displays
 - electronic controllers
 - steering actuators
 - telematics
 - connectors and harnesses
- techniques for reading and interpreting automotive technical information, graphic symbols and wiring diagrams
- inspection procedures, including:
 - analysing system operation
 - identifying software versions
 - interrogating electronic fault codes
- testing electrical systems, including procedures for accessing electrical terminals and using test probes without damaging connectors, fuse holders or wiring
- service and repair procedures, including:
 - component removal and replacement procedures
 - downloading and installing relevant component software
 - component and associated system adjustment procedures to include variable operating conditions
- post-repair testing procedures, including:
 - confirming that vehicle or machinery electronic monitoring, management and tracking systems are serviceable and operating to manufacturer specifications
 - confirming that no other problems are present as a result of the repair.

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 electronic management, monitoring and tracking system that they have inspected, serviced and repaired, 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 specifications for electronic management, monitoring and tracking systems
- PPE, including clothing, and eye and hand protection
- vehicles or machinery with the electronic management, monitoring and tracking systems specified in the performance evidence requiring service or repair
- tools, equipment and materials appropriate for inspecting, servicing and repairing electronic management, monitoring and tracking systems, including scan tool.

Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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