



Australian Government

Assessment Requirements for AURTTA126

Diagnose complex faults in electronic over hydraulic systems

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:

- diagnose a complex fault in at least three different electronic over hydraulic systems
- develop a testing strategy in the course of the above work to diagnose the cause of at least two of the following complex faults:
 - an intermittent fault
 - a fault that affects more than one system
 - a fault introduced as a result of a system repair
 - an indirect fault caused by the influence of external systems.

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:

- methods to locate and interpret information required to diagnose complex faults in electronic over hydraulic systems, including:
 - electronic over hydraulic systems system manufacturer specifications
- workplace procedures required to diagnose complex faults in electronic over hydraulic systems, including:
 - establishing the serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - safe disposal of materials
 - recycling procedures

- workplace health and safety (WHS) requirements relating to diagnosing complex faults in electronic over hydraulic systems, including procedures for working with high pressure fluid systems
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from hydraulic systems
- types of complex faults relating to electronic over hydraulic systems, including:
 - intermittent
 - multi-system
 - introduced as a result of system repair
 - indirect, caused by the influence of external systems
- types, functions and operation of electronic over hydraulic systems, including:
 - input sensors
 - output actuators
 - computer systems
- testing procedures for electronic over hydraulic systems, including procedures for:
 - electronic control analysis
 - component wear analysis
 - system operation analysis
- types, and key features of diagnostic testing equipment required to diagnose complex faults in electronic over hydraulic systems, including:
 - scan tool
 - vacuum gauge
 - oil pressure gauge
- procedures for accessing and interpreting scan tool system data, including:
 - diagnostic trouble codes (DTCs), including:
 - conditions that set the DTCs
 - conditions for running DTCs
 - live data
 - freeze frame data
 - waveforms
 - vehicle continuous and non-continuous monitored 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 electronic over hydraulic systems that they have worked on, 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 electronic over hydraulic system specifications
- three different electronic over hydraulic systems with complex faults
- electronic over hydraulic system diagnostic equipment, including:
 - scan tool
 - vacuum gauge
 - oil pressure gauge
- tools, equipment and materials appropriate for diagnosing complex faults in electronic over hydraulic systems.

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>