



Australian Government

Assessment Requirements for AURTTA025

Diagnose complex faults in vehicle integrated stability control 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 standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- diagnose a complex fault in the integrated stability control systems of three different vehicles or machinery
- the above diagnosis must involve two of the following types of 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

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to diagnosing complex faults in vehicle integrated stability control systems, including procedures for lifting and supporting vehicles
- types of complex faults relating to vehicle integrated stability control systems, including:
 - intermittent
 - multi-system
 - introduced as a result of system repair
 - indirect, caused by the influence of external systems
- types, function and operation of vehicle integrated stability control systems, including:
 - anti-lock braking systems (ABS)
 - traction control systems
 - electronic stability control (ESC) systems

- testing procedures for vehicle integrated stability control systems, including procedures for:
 - vehicle dynamic and static testing
 - component failure analysis
- types, functions, operation and limitations of diagnostic testing equipment required to diagnose complex faults in vehicle integrated stability control systems
- 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
- methods and processes for documenting and reporting diagnostic findings and recommendations.

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 vehicle integrated stability control 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 vehicle integrated stability control system specifications
- three different vehicles or machinery with complex faults in their integrated stability control systems
- vehicle integrated stability control system diagnostic equipment, including scan tool
- tools, equipment and materials appropriate for diagnosing complex faults in vehicle integrated stability control systems.

Links

Companion Volume implementation guides are found in VETNet -

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

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