



**Australian Government**

**Assessment Requirements for AURTTA125  
Diagnose complex faults in vehicle  
integrated stability control systems**

**Release: 1**

# Assessment Requirements for AURTTA125 Diagnose complex faults in vehicle integrated stability control systems

## 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 the integrated stability control systems of three different vehicles or machinery in which the work for at least two of the stability control systems must involve a different type of complex fault from among the following:
  - 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.
- develop a testing strategy in the course of the above work to diagnose the cause of the complex faults in the above three vehicles or machinery.

## 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 vehicle integrated stability control systems, including:
  - vehicle integrated stability control systems manufacturer specifications
- workplace procedures required to diagnose complex faults in vehicle integrated stability control 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 vehicle integrated stability control systems, including procedures for:
  - lifting and supporting motorcycles
- environmental requirements relating to vehicle integrated stability control systems
- 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 and key features 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.

## 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 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.

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>