



Australian Government

**Assessment Requirements for AURJTR104
Diagnose and repair motorcycle dynamic
control 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 and repair a fault in the dynamic control systems of:
 - at least one motorcycle with an anti-lock braking system (ABS)
 - at least one motorcycle with a traction control system (TCS).

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 and repair motorcycle dynamic control systems, including:
 - information provided by customer and supervisors
 - motorcycle dynamic control systems manufacturer specifications
- workplace procedures required to diagnose and repair motorcycle dynamic 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 and repairing motorcycle dynamic control systems, including procedures for:
 - using specialised tools and equipment

- using appropriate personal protective equipment (PPE)
- identifying hazards and controlling risks associated with:
 - working on motorcycle high voltage ignition systems
 - wearing jewellery while working around high current wiring systems
- operating principles of motorcycle dynamic control systems and associated components, including:
 - anti-lock braking
 - brake assist
 - traction control
- purpose and operation of motorcycle dynamic control systems and components, including:
 - ABS, including system inputs, electronic control unit (ECU), ABS modulator, and system outputs
 - TCS, including system inputs, ECU, and system outputs, including associated throttle and braking system controls
 - electronic stability control (ESC), including system inputs, steering angle sensors, and ECU and system outputs, including associated throttle and braking system controls
- diagnostic testing procedures for motorcycle dynamic control systems, including:
 - accessing and interpreting scan tool system data, including:
 - diagnostic trouble codes (DTCs)
 - live data
 - waveforms
 - using diagnostic flow charts
 - testing electrical systems, including procedures for:
 - accessing electrical terminals and using test probes without damaging connectors, fuse holders or wiring
 - determining damage to system wiring and connectors
- repair procedures for motorcycle dynamic control systems, including:
 - connector removal and replacement procedures
 - removal and replacement procedures for motorcycle dynamic control system components
- post-repair testing procedures for motorcycle dynamic control systems, including:
 - DTC clearing procedures
 - checking for electrical connector mating.

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 motorcycle dynamic 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 motorcycle dynamic control system specifications
- two different motorcycles with faults in their dynamic control systems
- diagnostic equipment for motorcycle dynamic control systems
- tools, equipment and materials appropriate for repairing motorcycle dynamic 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>