



Australian Government

Assessment Requirements for AURJTB001 Diagnose and repair motorcycle braking 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 and repair a fault in the following braking systems of two different motorcycles:
 - one hydraulically-operated two-wheel disc braking system, in which the work must involve:
 - removing, bleeding and adjusting hand brake lever and brake pedal, master cylinder, brake hose, brake calipers, brake pads and brake rotors
 - refitting or replacing them
 - one mechanically-operated drum braking system, in which the work must involve:
 - removing and adjusting hand brake lever and brake pedal, cables and rods, brake drums and shoes, and actuating mechanisms
 - refitting or replacing them.

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 and repairing motorcycle braking systems, including procedures for:
 - lifting and supporting motorcycles
 - managing and controlling brake dust and brake fluid
- environmental requirements, including procedures for trapping, storing and disposing of brake dust and brake fluid released from braking systems
- operating principles of motorcycle braking systems and associated components, including:
 - levers

- friction
- hydraulics, including force, pressure and area relationship
- application, purpose and operation of motorcycle disc and drum braking systems and components, including:
 - master cylinders
 - brake fluids
 - disc brake systems, including:
 - types of brake discs
 - disc pads
 - self-adjustment of disc pads
 - fixed, floating and multi-piston brake calipers
 - drum brake systems, including:
 - self-energising, servo effect
 - mechanically operated systems
 - hydraulically operated systems
 - manual and self-adjustment systems
 - combined braking systems
- diagnostic testing procedures for motorcycle braking systems, including:
 - operational testing of master cylinder
 - testing brake fluid
 - operational testing of disc and drum brake, including rod and cable checking and measurement
 - measuring and evaluating brake drums, shoes, discs and pads
- repair procedures for motorcycle braking systems, including:
 - procedures for removing, replacing and adjusting hydraulic system components, including master cylinder, switches, brake hoses and lines, rods and cables, disc calipers and disc pads, brake drums, brake shoes and wheel cylinders
 - procedures for removing, replacing and adjusting mechanical braking system components, including brake lever, rods and cables, brake drums and brake shoes
 - methods of bleeding brake systems
- post-repair testing procedures for motorcycle braking systems, including procedures for:
 - brake bedding-in
 - road testing.

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 motorcycle braking 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:

- motorcycle repair workplace or simulated workplace
- workplace instructions
- manufacturer motorcycle braking system specifications
- two different motorcycles with faults in the braking systems specified in the performance evidence
- diagnostic equipment for motorcycle braking systems
- tools, equipment and materials appropriate for repairing motorcycle braking 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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