



Australian Government

Assessment Requirements for AURJTB101 Diagnose and repair motorcycle braking 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 following two braking systems of at least two different motorcycles, each time repairing a different system from the following:
 - at least 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 callipers, brake pads and brake rotors
 - refitting or replacing them
 - at least 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

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 braking systems, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair motorcycle braking systems, including:
 - establishing 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
- disposal of excess materials
- recycling procedures
- workplace health and safety (WHS) requirements relating to diagnosing and repairing motorcycle braking systems, including procedures for:
 - lifting and supporting motorcycles
 - handling and controlling brake dust and brake fluids
- environmental requirements relating to diagnosing and repairing motorcycle braking systems, including procedures for trapping, storing and disposing of brake dust and brake fluid released from motorcycle braking systems
- operating principles of motorcycle braking systems, including:
 - levers
 - friction
 - hydraulics, including the relationship between force, pressure and area
- properties of brake fluids, including:
 - Department of Transportation (DOT) classification
 - synthetic and non-synthetic
 - compatibility of fluid types
- purpose and operation of motorcycle 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 callipers
 - 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 procedures for:
 - operational tests of master cylinder
 - testing brake fluid
 - operational tests of hand brake
 - operational tests of drum and disc brakes
 - measuring and evaluating brake drums, shoes, discs and pads

- repair procedures for motorcycle braking systems, including procedures for:
 - removing, replacing and adjusting braking system components, including master cylinder, switches, brake hoses and lines, rods and cables, disc callipers and disc pads, brake drums, brake shoes and wheel cylinders
 - removing, replacing and adjusting braking system components, including brake lever, rods and cables, brake drums and brake shoes
 - bleeding brakes
- post-repair testing procedures for motorcycle braking systems, including procedures for road testing and bedding in brakes.

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 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.

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>