



Australian Government

Assessment Requirements for AURJTD103 Diagnose and repair motorcycle suspension 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 front suspension systems of at least two different motorcycles, in which the work must involve:
 - removing, dismantling, reassembling, refitting and adjusting front forks
 - changing seals, valves, bushings and oil
- diagnose and repair a fault in the rear suspension systems of at least two different motorcycles.

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 suspension systems, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair motorcycle suspension 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 suspension systems, including procedures for working with:
 - stored energy in springs
 - suspension system oils
 - gas struts
- environmental requirements relating to diagnosing and repairing motorcycle suspension systems, including procedures for trapping, storing and disposing of oils released from suspension systems
- principles of motorcycle suspension systems and associated components, including:
 - brake dive
 - fork spring rate
 - fork compression damping
- purpose and operation of motorcycle suspension systems and components, including:
 - shock absorbers, including:
 - twin shock absorbers
 - mono-shock absorbers
 - telescopic fork suspension
 - inverted telescopic fork suspension
 - front tele-lever and duo-lever
 - rear swing arm suspension (twin-sided, mono-shock and para-lever)
 - gas struts
- diagnostic testing procedures for motorcycle suspension systems, including procedures for analysing:
 - performance
 - component wear
 - abnormal system noise
- repair procedures for motorcycle suspension systems, including procedures for:
 - adjusting pre-load and damping
 - removing, dismantling, reassembling and replacing components, including:
 - seal, bushing and valve replacement
 - oil replacement
 - air purging
 - replacing front fork slider bushes
 - removing and replacing rear shock absorbers
 - dismantling and repairing rear shock absorbers
 - repairing steering damper assemblies
- post-repair testing procedures for motorcycle suspension 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 motorcycle suspension 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 suspension system specifications
- two different motorcycles with faults in the front suspension systems specified in the performance evidence
- diagnostic equipment for motorcycle suspension systems
- tools, equipment and materials appropriate for repairing motorcycle suspension 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>