



Australian Government

**Assessment Requirements for AURJTD003
Diagnose and repair motorcycle suspension
systems**

Release: 1

Assessment Requirements for AURJTD003 Diagnose and repair motorcycle suspension systems

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 front suspension systems of 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 two different motorcycles.

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 suspension systems, including procedures for working with:
 - stored energy in springs
 - suspension system oils
 - gas struts
- environmental requirements, including procedures for trapping, storing and disposing of oils released from suspension systems
- operating principles of motorcycle suspension systems and associated components, including:
 - brake dive
 - fork spring rate
 - fork compression damping

- application, purpose and operation of the following 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:
 - evaluating performance
 - analysing component wear
 - analysing 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

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>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>