



Australian Government

Assessment Requirements for AURJTD006

Analyse and evaluate faults in motorcycle steering, suspension and frame 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:

- analyse and evaluate a fault in the:
 - steering system of a motorcycle
 - suspension system of a different motorcycle
 - frame system of a third motorcycle.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to analysing and evaluating faults in motorcycle steering, suspension and frame systems, including procedures for working with stored energy in springs
- environmental requirements, including procedures for trapping, storing and disposing of oils released from steering, suspension and frame systems
- principles and processes involved in planning and implementing analysis and evaluation of motorcycle steering, suspension and frame system faults
- design and planning of diagnostic procedures of motorcycle steering, suspension and frame system faults, including procedures for diagnosing:
 - hydraulic faults
 - mechanical faults
 - electrical faults
- procedures for analysing and evaluating motorcycle steering, suspension and frame system faults, including:
 - system failure analysis

- component failure analysis
- types, functions, operation and limitations of the following systems, including:
 - steering, including:
 - head tube
 - headset bearings
 - triple clamp
 - suspension, including:
 - shock absorbers, including twin shock and mono-shock absorbers
 - telescopic fork suspension
 - inverted telescopic fork suspension
 - front telelever and duolever
 - rear suspension, including twin shock swingarm, monoshock swingarm, monoshock single sided swingarm, rear monolever and rear paralever
 - frames, including:
 - tubular frame
 - alloy formed section
 - composite materials
- testing procedures for motorcycle steering, suspension and frame systems, including:
 - mechanical linkages
 - shock absorber performance under load
 - damper performance under load
 - frames for fatigue and stress
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in motorcycle steering, suspension and frame systems
- procedures for documenting and reporting the analysis and evaluation process
- requirements of Australian Design Rules (ADRs) relating to motorcycle steering, suspension and frame 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 steering, suspension and frame 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 steering, suspension and frame system specifications
- three different motorcycles with steering, suspension and frame system faults
- diagnostic equipment for motorcycle steering, suspension and frame systems
- tools, equipment and materials appropriate for analysing and evaluating motorcycle steering, suspension and frame systems.

Links

Companion Volume implementation guides are found in VETNet -

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

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