



Australian Government

AURJTD001 Inspect motorcycle suspension systems

Release: 1

AURJTD001 Inspect motorcycle suspension systems

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect motorcycle suspension systems according to manufacturer specifications. It involves preparing for the task, identifying both the front and rear suspension systems, inspecting the general condition of the motorcycle, and completing workplace processes and documentation.

It applies to those undertaking a Vocational Education and Training in Schools (VETiS) or pre-vocational qualification as preparation to entering the automotive service and repair or automotive manufacturing industry.

The unit is designed for use in a highly supervised context and is not suitable for use in a vocational qualification.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Competency Field

Mechanical - Motorcycle

Unit Sector

Technical - Steering and Suspension

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to inspect motorcycle suspension	1.1 Task instruction is interpreted and motorcycle to be worked on is identified

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
system	1.2 Inspection information is sourced and interpreted 1.3 Potential hazards and risks associated with task are identified and reported to workplace supervisor 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Inspect suspension system	2.1 Inspection is carried out according to manufacturer specifications, workplace procedures and safety requirements 2.2 Inspection results are compared with manufacturer specifications 2.3 Inspection findings are reported according to workplace procedures
3. Complete work processes	3.1 Final inspection is made to ensure work meets task instruction and workplace standards, and motorcycle is presented ready for use 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 3.3 Tools and equipment are checked and stored according to workplace procedures 3.4 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate sources of information on suspension system specifications.
Reading skills to:	interpret key information from manufacturer and workshop literature when seeking inspection procedures and specifications relating to suspension systems.
Writing skills to:	legibly and accurately fill out workplace documentation using correct industry terminology and conventions.
Oral communication skills to:	participate effectively in verbal exchanges using questioning and active listening to request, clarify and clearly convey information.

Skills	Description
Numeracy skills to:	• use basic mathematical operations, including addition and subtraction, to calculate suspension travel distances.
Technology skills to:	• use measuring equipment, such as tape measures and rulers.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety requirements</i> must include:	• work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: • working with stored energy in springs • lifting and supporting motorcycles.
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Unit Mapping Information

Equivalent to AURJTD2001 Inspect motorcycle suspension systems

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURJTD001 Inspect motorcycle suspension systems

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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:

- inspect the front and rear suspension systems of at least two different motorcycles.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) relating to inspecting motorcycle suspension systems, including procedures for:
 - working with stored energy in springs
 - lifting and supporting motorcycles
- identification and function of motorcycle suspension systems, including:
 - shock absorbers, including:
 - twin shock absorbers
 - mono-shock absorbers
 - telescopic fork suspension
 - inverted telescopic fork suspension
 - front telelever and duolever
 - rear swing arm suspension
- types and applications of suspension fluids and lubricants
- inspection procedures for motorcycle suspension systems, including:
 - oil leaks
 - ride height
 - component wear
 - tyres and inflation

- mounting bolts and attachments
- suspension bearings and bushing.

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 suspension systems that they have inspected, 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 workplace or simulated workplace
- task instructions
- manufacturer suspension system specifications
- two different motorcycles
- tools, equipment and materials appropriate for inspecting motorcycle suspension systems.

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