



Australian Government

AURJTQ001 Inspect and service motorcycle driveline systems

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect and service motorcycle driveline systems. It involves preparing for the task, servicing and adjusting the chain and sprocket, belt and driveshaft drive systems, reporting the inspection findings, and completing workplace processes and documentation.

It applies to those working in the motorcycle service and repair industry. The driveline systems include those of motorcycles and motor scooters, and include road, off-road, agricultural or race motorcycles.

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

Competency Field

Mechanical - Motorcycle

Unit Sector

Technical - Driveline and Final Drives

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 and service motorcycle driveline system	1.1 Job requirements are determined from workplace instructions 1.2 Servicing information for <i>motorcycle driveline system</i> is sourced and interpreted 1.3 Hazards associated with the work are identified and risks are

Elements	Performance Criteria
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	managed 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Inspect driveline 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, including recommendations for necessary repairs or adjustments
3. Service driveline system	3.1 Service and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements , and without causing damage to components or systems 3.2 Post-service testing is carried out according to workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and motorcycle or scooter is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 4.4 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 appropriate sources of information efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking service procedures and specifications relating to driveline systems.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting inspection findings, making recommendations, and

	recording parts and material used.
Oral communication skills to:	- clarify instructions - report inspection findings and make repair recommendations.
Numeracy skills to:	use basic mathematical operations, including addition and subtraction, to calculate liquid volumes and service schedule intervals.
Problem solving skills to:	refer problems outside area of responsibility to appropriate person.
Technology skills to:	use precision measuring equipment.

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>Motorcycle driveline system</i> must include:	- chain drive - belt drive - shaft drive.
<i>Safety requirements</i> must include:	work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for avoiding entanglement in chains, sprockets, belts and pulleys.
<i>Environmental requirements</i> must include:	procedures for handling, trapping and storing oils and lubricants released from driveline systems.

Unit Mapping Information

Equivalent to AURJTQ2001 Inspect and service motorcycle driveline 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 AURJTQ001 Inspect and service motorcycle driveline 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 and service each of the following motorcycle driveline systems:
 - chain
 - belt
 - shaft

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting and servicing motorcycle driveline systems, including procedures for avoiding entanglement in chains, sprockets, belts and pulleys
- environmental requirements, including procedures for handling, trapping and storing oils and lubricants released from driveline systems
- identification, function and basic operation of motorcycle driveline systems, including:
 - chain and sprocket
 - belt drive
 - driveshaft drive
- inspection procedures for driveline systems, including:
 - chain free play
 - gear tooth condition
 - drive shaft backlash
- service and adjustment procedures for driveline systems, including:
 - servicing and adjusting chain tension and wheel alignment

- measuring and adjusting belt tension and wheel alignment
- lubricating shaft drives
- post-service testing procedures for motorcycle driveline 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 driveline 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 driveline system specifications
- three different motorcycles with the driveline systems specified in the performance evidence requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing motorcycle driveline systems.

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