



Australian Government

AURJTY001 Repair and align motorcycle frames

Release: 1

AURJTY001 Repair and align motorcycle frames

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect motorcycle frames, determine and carry out required repairs, and then align the frames and their components. It involves preparing for the task, inspecting, measuring, repairing and aligning motorcycle frames, and completing workplace processes and documentation.

It applies to those working in the motorcycle service and repair industry. It includes all types of motorcycle frames, including those with side cars and carrying compartments.

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

Competency Field

Mechanical - Motorcycle

Unit Sector

Technical - Chassis and Frame

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 measure motorcycle frame	1.1 Job requirements are determined from workplace instructions 1.2 Frame specifications and repair procedures are sourced and interpreted 1.3 Inspection and measurement options are analysed and those most appropriate to the circumstances are selected

Elements Elements describe the essential outcomes.	Performance Criteria 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.
	1.4 Hazards associated with the work are identified and risks are managed 1.5 Inspection and measurement tools and equipment are selected and checked according to manufacturer procedures
2. Inspect and measure frame	2.1 Frame is inspected and repair requirements are determined according to 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. Repair frame	3.1 Repair procedures and information are sourced and interpreted 3.2 Repair options are analysed and those most appropriate to the circumstances are selected 3.3 Repair tools, equipment and materials are selected and checked for serviceability 3.4 Frame is repaired, replaced and adjusted according to manufacturer specifications, workplace procedures, and safety requirements, and without causing damage to components or systems
4. Align frame	4.1 Alignment procedures and information are sourced and interpreted 4.2 Alignment options are analysed and those most appropriate to the circumstances are selected 4.3 Alignment tools, equipment and materials are selected and checked according to manufacturer procedures 4.4 Frame is aligned according to manufacturer specifications, workplace procedures, and safety requirements, and without causing damage to components or systems
5. Complete work processes	5.1 Final inspection is made to ensure work is to workplace expectations and frame is presented ready for use or stored 5.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 5.3 Tools and equipment are checked and stored according to workplace procedures 5.4 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 repair and alignment specifications and procedures.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting findings, making repair and alignment recommendations, and recording parts and material used.
Oral communication skills to:	- clarify instructions - report findings and make repair and alignment recommendations.
Numeracy skills to:	measure frame alignment and use basic mathematical operation, including addition and subtraction, to calculate tolerances and deviations from manufacturer specifications.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Technology skills to:	- use measuring equipment, such as tape measures, rulers and vernier calipers - use motorcycle alignment jigs.

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: - selecting and using personal protective equipment (PPE), including safety glasses, ear protection and safety footwear - lifting and supporting motorcycles - using motorcycle frame straightening rigs.
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Unit Mapping Information

Equivalent to AURJTY3001 Repair and align motorcycle frames

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 AURJTY001 Repair and align motorcycle frames

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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:

- repair and align frames on two of the following motorcycles:
 - road fully fared
 - road naked
 - cruiser
 - off road
 - scooter.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to repairing and aligning motorcycle frames, including procedures for:
 - selecting and using personal protective equipment (PPE), including safety glasses, ear protection and safety footwear
 - lifting and supporting motorcycles
 - using motorcycle frame straightening rigs
- types and application of motorcycle frames, including those of:
 - road fully fared motorcycles
 - road naked motorcycles
 - cruiser motorcycles
 - off road motorcycles
 - scooters
- principles of frame alignment and steering geometry as applied to motorcycles

- frame repair procedures, including application, purpose and operation of straightening jigs
- frame alignment and adjustment procedures, including procedures for checking and adjusting swing arm alignment
- regulatory requirements relating to repairing and aligning motorcycle frames, including Australian Design Rules.

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 frames that they have repaired and aligned, 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
- motorcycle manufacturer frame alignment specifications
- Australian Design Rules
- two different motorcycles as specified in the performance evidence
- motorcycle frame alignment jig
- tools, equipment and materials appropriate for repairing and aligning motorcycle frames.

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