



Australian Government

AURBTD101 Service bicycle steering systems

Release: 1

AURBTD101 Service bicycle steering systems

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to service bicycle steering systems. It involves preparing for the work, selecting and using specialist tools and equipment, inspecting, servicing and testing the bicycle steering system, and completing workplace processes and documentation.

The unit applies to those working in the bicycle retail, service and repair industry.

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

Unit Sector

Bicycle Technical – Steering and Suspension

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to service bicycle steering system	1.1 Identify job requirements are determined from workplace instructions 1.2 Inspect condition of steering system for faults and worn or damaged components and overall condition using visual inspection methods and by comparing measurements against manufacturer specifications 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check materials, parts, tools and equipment, including personal protective equipment (PPE), for serviceability 1.5 Prepare work area and plan service sequence, including post-service testing, to avoid damage to bicycle, minimise

ELEMENTS	PERFORMANCE CRITERIA
	waste and use time efficiently
2. Carry out service of steering system	2.1 Use tools and equipment according to workplace procedures and manufacturer specifications 2.2 Service bicycle steering system according to job requirements, manufacturer specifications, and safety and environmental requirements 2.3 Test operation of serviced steering system through its full range and make adjustments as required 2.4 Report results and quality issues to authorised personnel as required
3. Complete work processes	3.1 Conduct final inspection according to workplace procedures and confirm bicycle is ready for use 3.2 Clear work area and dispose of or recycle materials according to workplace procedures 3.3 Complete documentation according to workplace procedures

Foundation Skills

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

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Oral communication	Asks questions to clarify instructions and requirements.
Numeracy	Completes measurements to determine steering system condition and operation.
Problem solving	Identifies technical and operational faults and defects, quality issues and potential problems associated with bicycle steering system during service activities.
Technology	Uses specialist bicycle tools and equipment in line with workplace procedures.

Unit Mapping Information

Supersedes and is equivalent to AURBTD001 Service bicycle steering 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 AURBTD101 Service bicycle steering systems

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- service and test at least three different bicycle steering systems according to manufacturer specifications
- in the course of the above work service the following:
 - bicycle headsets
 - handlebars and stems.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to service bicycle steering systems, including:
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to service bicycle steering systems, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- work health and safety (WHS) requirements relating to servicing bicycle steering systems, including procedures for:
 - manually handling bicycles and their steering systems
 - identifying workplace hazards

- using personal protective equipment (PPE)
- environmental requirements, including procedures for disposing of waste materials
- application, purpose and function of bicycle steering system principles
- bicycle steering system components, including:
 - forks
 - headsets
 - handlebars and stems
- techniques for servicing bicycle steering systems, including:
 - identification of bicycle steering components, materials and specifications
 - fault identification
 - bicycle measuring techniques
 - steering system servicing and adjustment techniques
 - steering system testing procedures
- bicycle steering system terminology
- types and use of tools and equipment used to service bicycle steering systems
- servicing options, including:
 - on- and off-site servicing
 - servicing and adjusting steering system components
 - upgrading steering components.

Assessment Conditions

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 bicycle steering systems that they have serviced, e.g. service 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:

- bicycle workplace or simulated workplace, including location to test bicycle steering system
- workplace instructions detailing job requirements
- manufacturer and steering system component specifications
- three different bicycles requiring servicing and testing of their steering systems
- PPE required to service bicycle steering systems
- tools and equipment appropriate for servicing bicycle steering systems.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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