



**Australian Government**

# **AURTTB001 Inspect and service braking systems**

**Release: 1**

# AURTTB001 Inspect and service braking systems

## Modification History

Release	Comment
Release 1	New unit of competency.

## Application

This unit describes the performance outcomes required to inspect and service braking systems according to manufacturer specifications. It involves preparing for the task, inspecting the system, reporting the inspection findings, servicing and adjusting the system, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The braking systems include those of agricultural machinery, heavy commercial vehicles, light vehicles, motorcycles, mobile plant machinery, outdoor power equipment or trailers. The braking systems may be hydraulic, air over hydraulic, air, mechanical, or hand and parking braking systems.

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

## Competency Field

Mechanical Miscellaneous

## Unit Sector

Technical - Brakes

## 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 braking system	1.1 Job requirements are determined from workplace instructions 1.2 Servicing information is sourced and interpreted

<b>Elements</b>	<b>Performance Criteria</b>
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.
	1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Inspect braking system	2.1 Inspection is carried out according to manufacturer specifications, workplace procedures, and <b><i>safety and environmental requirements</i></b> 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 braking 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 <b><i>Post-service testing</i></b> 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 vehicle 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.

<b>Skills</b>	<b>Description</b>
Learning skills to:	<ul style="list-style-type: none"> <li>locate appropriate sources of information efficiently.</li> </ul>
Reading skills to:	<ul style="list-style-type: none"> <li>interpret information from manufacturer and workshop literature when seeking service procedures and specifications relating to braking systems.</li> </ul>

<b>Skills</b>	<b>Description</b>
Writing skills to:	<ul style="list-style-type: none"> <li>legibly and accurately fill out workplace documentation when reporting inspection findings, making recommendations, and recording parts and material used.</li> </ul>
Oral communication skills to:	<ul style="list-style-type: none"> <li>clarify instructions</li> <li>report inspection finding and make repair recommendations.</li> </ul>
Numeracy skills to:	<ul style="list-style-type: none"> <li>measure brake components and use basic mathematical operations, including addition and subtraction, to calculate distances, tolerances and deviations from manufacturer specifications</li> <li>interpret measuring equipment scales.</li> </ul>
Technology skills to:	<ul style="list-style-type: none"> <li>use measuring equipment, such as vernier calipers.</li> </ul>

## 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.

<b><i>Safety and environmental requirements</i></b> must include:	<ul style="list-style-type: none"> <li>work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: <ul style="list-style-type: none"> <li>lifting and supporting vehicles or machinery</li> <li>managing and controlling brake dust and brake fluids</li> </ul> </li> <li>environmental requirements, including procedures for trapping, storing and disposing of brake dust and brake fluid released from braking systems.</li> </ul>
<b><i>Post-service testing</i></b> must include:	<ul style="list-style-type: none"> <li>static and dynamic testing of braking system.</li> </ul>

## Unit Mapping Information

Equivalent to AURTTB2001 Inspect and service braking systems

## Links

Companion Volume implementation guides are found in VETNet -

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