



Australian Government

AURTTB006 Inspect, service and repair auxiliary braking systems

Release: 1

AURTTB006 Inspect, service and repair auxiliary braking systems

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect, service and repair auxiliary braking systems. It involves preparing for the task, inspecting the system, servicing and carrying out any necessary repairs to the system, performing post-service or repair testing, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The auxiliary braking systems include those of agricultural machinery, heavy commercial vehicles or mobile plant machinery. The unit applies to vehicles or machinery fitted with speed reducing or control devices, such as engine brakes, exhaust brakes or hydraulic or electrical retarders.

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, service and repair	1.1 Job requirements are determined from workplace instructions 1.2 Inspection, service and repair procedures and information are

Elements	Performance Criteria
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auxiliary braking system	sourced and interpreted 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools and equipment are selected and checked for serviceability
2. Conduct inspection and analyse results	2.1 Inspection is carried out according to manufacturer specifications, workplace procedures and safety requirements 2.2 Faults are identified from inspection results and causes of faults are determined as required 2.3 Inspection findings are reported according to workplace procedures, including recommendations for necessary repairs or adjustments
3. Service and repair system	3.1 Service and repair procedures and information are sourced and interpreted 3.2 Service and repair tools, equipment and materials are selected and checked according to workplace procedures 3.3 Service, repairs and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.4 Post-service and repair 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 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.

Skills	Description
Learning skills to:	locate appropriate sources of auxiliary braking information

Skills	Description
	efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking auxiliary braking system specifications and procedures.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting inspection findings, making repair recommendations, and recording parts and material used.
Numeracy skills to:	measure auxiliary braking system components and use basic mathematical operations, including addition and subtraction, to calculate distances, tolerances and deviations from manufacturer specifications.

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 hot exhaust components.
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Unit Mapping Information

Equivalent to AURTTB3006 Inspect, service and repair auxiliary braking 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 AURTTB006 Inspect, service and repair auxiliary braking 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, service and repair the auxiliary braking systems of two different vehicles or machinery.

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, servicing and repairing auxiliary braking systems, including procedures for working with hot exhaust components
- identification, function and operating principles of auxiliary braking systems and their components, including:
 - internal engine compression braking
 - external exhaust braking
 - hydraulic retarder
 - electrical retarder
 - control circuits
- inspection procedures for auxiliary braking systems
- service, repair and adjustment procedures for auxiliary braking systems
- post-repair testing procedures for auxiliary braking 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 auxiliary braking systems that they have serviced and repaired, 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
- manufacturer auxiliary braking system specifications
- two different vehicles or machinery with auxiliary braking systems requiring service and repair
- tools and equipment appropriate for inspecting, servicing, repairing and adjusting auxiliary braking systems.

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