



Australian Government

AUMGTB001 Assemble, install and test braking system kits

Release: 1

AUMGTB001 Assemble, install and test braking system kits

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTB3001 Assemble and install braking system kit

Application

This unit describes the performance outcomes required to assemble, install and test a vehicle braking system kit and its associated components.

It applies to individuals in an automotive manufacturing environment and involves the application of skills and knowledge at a specialist level.

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

Competency Field

Manufacturing - Bus, Truck and Trailer

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 italicised text is used, further information is detailed in the range of conditions section
1. Plan the job	1.1 Work order and job specifications are used to determine installation process 1.2 Braking system and components are identified, selected and inspected 1.3 <i>Tools and equipment</i> required for the job are selected and checked for safe operation 1.4 Assembly and installation information is accessed from manufacturer specifications

Elements	Performance Criteria
2. Assemble and install braking system kit	2.1 Assembly and installation activities are carried out according to workplace procedures 2.2 Braking system kit is assembled using appropriate sources of information 2.3 Braking system kit is installed using installation procedures that comply with manufacturer specifications, tolerances and adjustment requirements
3. Test braking system	3.1 Test information is accessed and interpreted from manufacturer specifications 3.2 System tests are carried out according to manufacturer specifications and workplace procedures 3.3 Braking system assembly and test results are recorded
4. Complete work processes	4.1 Tools and equipment are cleaned, inspected for defects and stored according to workplace procedures 4.2 Faulty tools and equipment are identified, tagged and reported according to workplace procedures 4.3 Workplace documentation is completed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skills	Description
Reading skills to:	- identify workplace procedures and work health and safety (WHS) requirements - interpret job instructions and braking system manufacturer specifications - follow assembly specifications.
Writing skills to:	- legibly record braking system test results - complete faulty equipment tags.
Numeracy skills to:	measure components and equipment to determine compliance with specifications.
Oral communication skills to:	refer tool, equipment and machinery faults to supervisor.
Planning and organising	identify and prepare braking system kits

Skills	Description
skills to:	- identify and prepare assembly equipment and work area - conduct braking system tests.
Problem-solving skills to:	solve problems when braking system tests do not comply with 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>Tools and equipment</i> must include:	- cutting, measuring, lifting, brake bleeding and test equipment - hand tools and power tools.
<i>Workplace procedures</i> must include:	- quality guidelines - recording and reporting - use of equipment - environmental requirements - WHS requirements to assemble and install braking system kits.
<i>Sources of information</i> must include:	- customer requirements - manufacturer specifications - Vehicle Standards Bulleting 6 (VSB6) National Code of Practice – Heavy Vehicle Modifications - workplace procedures to assemble and install braking system kits.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=bd587669-08b3-4cd5-85f0-f9fa0c6304c1>

Assessment Requirements for AUMGTB001 Assemble, install and test braking system kits

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Performance Evidence

Before competency can be determined, individuals must have competently assembled, installed and tested a braking system kit on a minimum of one occasion.

Individuals must demonstrate they can:

- comply with workplace procedures relating to assembling and installing braking system kits
- comply with work health and safety (WHS) requirements relating to assembling and installing braking system kits
- assemble and install braking system kit and its components
- bleed and adjust brakes, following safe work practices
- test at least one of the following pneumatic braking systems:
 - electric
 - hydraulic
 - mechanical
- complete workplace documentation relevant to assembling, installing and testing braking system kits
- select and use relevant assembly tools and equipment.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements and workplace procedures relating to assembling, installing and testing braking system kits
- braking system operating principles
- fabrication and routing procedures for brake lines
- procedures for assembling, fitting, bleeding and adjusting braking system kits
- brake fluid types and applications.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the vehicles on which they have worked, e.g. work sheets.

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 workplace or simulated workplace
- work sheets and workplace procedures relating to assembling and installing braking system kits
- braking system kits
- manufacturer specifications for braking system kits
- manufacturer fitting and operating instructions
- tools, equipment and fluids relating to assembling and installing braking systems
- vehicle or simulated frame for fitting a braking system kit.

Links

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