



Australian Government

AUMGTM007 Assemble, install and test pneumatic system kits

Release: 1

AUMGTM007 Assemble, install and test pneumatic system kits

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTM3007 Assemble and install pneumatic system kit

Application

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

It applies to those 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 - Manufacture

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. Prepare pneumatic system kit	1.1 Work order and workplace instructions are used to determine job requirements 1.2 <i>Assembly and installation information</i> is identified from manufacturer specifications 1.3 Tools and equipment are selected to meet job requirements and checked for quality and correct operation
2. Assemble pneumatic	2.1 <i>Workplace procedures</i> are identified and followed

Elements	Performance Criteria
system	2.2 Pneumatic system kit is assembled according to manufacturer specifications 2.3 Pneumatic system kit is installed using installation procedures that comply with manufacturer specifications and tolerances and without causing damage to components or systems
3. Test pneumatic system	3.1 Testing procedures and requirements are accessed and interpreted from manufacturer specifications 3.2 Pneumatic system is tested according to manufacturer specifications and adjusted if required 3.3 Final inspection and test results are recorded according to workplace procedures
4. Complete work processes	4.1 Tools and equipment are cleaned, inspected for defects and stored according to workplace procedures 4.2 Faulty equipment is identified, tagged and reported 4.3 Waste material is collected, recycled or disposed of according to workplace procedures 4.4 Workplace documents are 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:	- interpret pneumatic system kit assembly and installation information - interpret manufacturer specifications and tolerances - identify work order and job specifications.
Writing skills to:	- legibly record pneumatic system test results - complete workplace checklists and faulty equipment tags.
Oral communication skills to:	- clarify workplace instructions and determine job requirements - communicate test results and required adjustments.
Numeracy skills to:	- interpret manufacturer specifications and tolerances - interpret test measurements and results.
Planning and organising skills to:	- identify and prepare pneumatic system kit and its components - follow manufacturer assembly specifications and instructions - prepare assembly equipment and work area.

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>Assembly and installation information</i> must include:	• customer requirements for the assembly and installation of pneumatic system kits • pneumatic system kit manufacturer specifications • vehicle manufacturer specifications.
<i>Workplace procedures</i> must include:	• work health and safety (WHS) and environmental requirements to assemble and install pneumatic system kits • pneumatic system testing and adjustment procedures.

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 AUMGTM007 Assemble, install and test pneumatic system kits

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Performance Evidence

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

Individuals must demonstrate they can:

- assemble pneumatic system kit according to manufacturer specifications
- install pneumatic system to vehicle according to work instructions, workplace procedures and work health and safety (WHS) requirements
- adjust and test pneumatic system kit according to workplace procedures and WHS and environmental requirements
- complete installation work sheets.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- basic operating principles of pneumatic systems
- WHS and environmental procedures relating to assembling, installing and testing pneumatic system kits
- types and applications of pneumatic system kits, including pneumatic system schematic symbols
- procedures for assembling, fitting and adjusting pneumatic system kits
- pneumatic system test procedures.

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 pneumatic system kits that they have assembled and installed, e.g. installation 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
- pneumatic system kits, manufacturer specifications and fitting instructions
- vehicle or simulated frame that requires fitting of a pneumatic system kit
- tools and equipment required to install and test pneumatic system kits
- work sheets for assembling, installing and testing pneumatic system kits.

Links

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