



Australian Government

AUMGTM003 Install or replace mechanical units and assemblies

Release: 1

AUMGTM003 Install or replace mechanical units and assemblies

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTM3003 Install or replace mechanical units and assemblies

Application

This unit describes the performance outcomes required to install, and replace and adjust mechanical units and assemblies.

It applies to those in an automotive manufacturing environment and involves the application of skills and knowledge at a production worker 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. Plan and prepare	1.1 Drawings and work orders are interpreted to establish work requirements 1.2 Lifting gear is selected and operated according to <i>workplace procedures</i> 1.3 Tools and equipment are selected and inspected and faults reported
2. Install and test	2.1 Fasteners, fittings and materials are selected for installation

Elements	Performance Criteria
mechanical units and assemblies	2.2 Mechanical units and assemblies are installed and tested according to job specifications and work health and safety (WHS) procedures 2.3 Tools and equipment are used to install and replace assemblies
3. Remove, replace and test mechanical units and assemblies	3.1 Assembly information is accessed and interpreted from manufacturer specifications 3.2 Mechanical units and assemblies are removed and replaced according to manufacturer specifications and WHS procedures 3.3 Mechanical units and assemblies are tested according to manufacturer specifications
4. Complete work processes	4.1 Work area, tools and equipment are cleaned, checked 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 job specifications, work instructions, work orders and workplace procedures - interpret equipment operating instructions - identify parts and material lists - interpret installation, removal and testing instructions.
Writing skills to:	legibly complete faulty equipment tags.
Oral Communication to:	report faulty equipment to appropriate personnel.
Numeracy skills to:	measure components, assemblies and equipment to determine compliance with specifications.
Planning and organising skills to:	- identify and prepare components, equipment and work area - follow assembly instructions and 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>Workplace procedures</i> must include:	• recording and reporting procedures for installing and replacing mechanical units and assemblies • procedures for using installation and replacement equipment • WHS requirements for installing and replacing mechanical units and assemblies.
<i>Tools and equipment</i> must include:	• hand and power tools and equipment for installing and replacing mechanical units and assemblies • lifting equipment for mechanical units and assemblies.

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 AUMGTM003 Install or replace mechanical units and assemblies

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Performance Evidence

Before competency can be determined, individuals must have competently installed and replaced mechanical units and assemblies on a minimum of two occasions.

Individuals must demonstrate they can:

- interpret and follow work orders and working drawings
- install and replace mechanical units and assemblies according to workplace procedures and work health and safety (WHS) requirements
- test mechanical units and assemblies
- complete workplace documentation relating to installing and replacing mechanical units and assemblies.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- workplace procedures and WHS requirements relating to installing and replacing mechanical units and assemblies
- operating procedures for installation and replacement equipment
- procedures for operating lifting equipment
- techniques for installing and replacing mechanical units and assemblies
- testing procedures of mechanical units and assemblies
- communication protocols to report equipment faults.

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 mechanical units and assemblies that they have installed and replaced, 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
- tools, equipment and machinery required for the installation and assembly of mechanical units and assemblies
- mechanical units and assemblies
- workplace procedures and instructions relating to installing and replacing mechanical units and assemblies
- vehicle or simulated frame
- installation work sheets and job specifications.

Links

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