



Australian Government

AUMGTM013 Install or replace mechanical units and assemblies

Release: 1

AUMGTM013 Install or replace mechanical units and assemblies

Modification History

Release	Comment
Release 1	New unit of competency

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.

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.
1. Plan and prepare	1.1 Interpret drawings and work orders to establish work requirements 1.2 Select lifting gear and operate according to workplace procedures 1.3 Select and inspect tools and equipment and report any faults
2. Install and test mechanical units and assemblies	2.1 Select fasteners, fittings and materials for installation 2.2 Install and test mechanical units and assemblies according to job specifications and work health and safety (WHS) procedures 2.3 Use tools and equipment to install and replace assemblies
3. Remove, replace and test mechanical units and assemblies	3.1 Access and interpret assembly information from manufacturer specifications 3.2 Remove and replace mechanical units and assemblies

Elements	Performance Criteria
	according to manufacturer specifications and WHS procedures 3.3 Test mechanical units and assemblies according to manufacturer specifications
4. Complete work processes	4.1 Clean and check work area and store tools and equipment according to workplace procedures 4.2 Identify, tag and report faulty equipment 4.3 Collect waste material and recycle or dispose of according to workplace procedures 4.4 Complete workplace documents 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.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AUMGTM013 Install or replace	AUMGTM003 Install and replace	Additions to Assessment	Equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
mechanical units and assemblies	mechanical units and assemblies	Requirements due to rationalisation of Range of Conditions. Minor changes to ensure policy adherence.	

Links

Companion Volume Implementation Guides are found in VETNet -

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

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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, in the manner described in the Performance Criteria of this unit.

Individuals must demonstrate they can:

- install and replace mechanical units and assemblies according to workplace procedures and work health and safety (WHS) requirements
- use hand and power tools and equipment safely when installing and replacing mechanical units and assemblies
- test mechanical units and assemblies

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit. This includes:

- workplace procedures relating to installing and replacing mechanical units and assemblies, including:
 - recording and reporting requirements
 - WHS requirements for safe use of installation and replacement equipment
- 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 of this unit must satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards.

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.

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.

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