



Australian Government

AUMGTM005 Read and interpret engineering drawings and determine requirements

Release: 2

AUMGTM005 Read and interpret engineering drawings and determine requirements

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTM3005 Read and interpret engineering drawings and job specifications
Release 2	Updated for clarity and policy adherence

Application

This unit describes the performance outcomes required to determine production processes and materials from engineering drawings and specification sheets.

It applies to individuals in a 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.

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 Identify symbols, codes, legends and diagrams in engineering drawings 1.2 Identify and interpret manufacturing information, products, systems and components represented in engineering drawings 1.3 Determine work requirements and confirm with appropriate personnel
2. Determine processes	2.1 Identify specific customer and job requirements 2.2 Identify required manufacturing processes from drawing, and

Elements	Performance Criteria
	select materials according to job requirements and workplace procedures
3. Complete work processes	3.1 Prepare production order according to engineering drawings and workplace procedures 3.2 Record engineering drawing outcomes and workplace documents and store engineering drawings 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 engineering drawings, job specifications and workplace procedures - identify customer requirements.
Writing skills to:	legibly prepare production work orders.
Numeracy skills to:	- identify measurements and symbols in engineering drawings and job specifications - calculate material requirements.
Planning and organising skills to:	plan and organise the job, choosing from different options, identifying possible risks, and calculating and accessing relevant resources.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AUMGTM005 Read and interpret engineering drawings and determine requirements (Release 2)	AUMGTM005 Read and interpret engineering drawings and determine requirements (Release 1)	Minor updates to Assessment Requirements. Performance Criteria changed from passive to active voice.	Equivalent

Links

Companion Volume Implementation Guides are found in VETNet -

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

AUMGTM005 Read and interpret engineering drawings and determine requirements

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTM3005 Read and interpret engineering drawings and job specifications
Release 2	Updated for clarity and policy adherence

Performance Evidence

Before competency can be determined, individuals must have competently read and interpreted engineering drawings and job specifications on a minimum of two occasions.

Individuals must demonstrate they can:

- identify job requirements from engineering drawings
- identify and select appropriate production processes and material requirements according to engineering drawings, workplace procedures and work health and safety (WHS) requirements
- determine production timelines
- produce production work orders.

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 reading and interpreting engineering drawings
- types, applications and layout of engineering drawings, including:
 - codes
 - symbols
 - legends
 - diagrams
- procedures for determining materials, production processes and production timelines from engineering drawings and job specifications
- procedures for preparing production work orders.

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 engineering drawings and job specifications that they have interpreted, e.g. production work 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:

- manufacturing workplace or simulated workplace
- engineering drawings and job specifications
- equipment and material necessary to produce production work orders.
-

Links

Companion Volume Implementation Guides are found in VETNet -

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