



Australian Government

AUMGTW002 Perform mechanical cutting

Release: 2

AUMGTW002 Perform mechanical cutting

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMGTW3002 Conduct mechanical cutting operations
Release 2	Updated for clarity and policy adherence

Application

This unit describes the performance outcomes required to prepare and operate mechanical cutting equipment.

It 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 – Welding

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. Prepare for work	1.1 Identify job requirements and specifications from work order and drawings 1.2 Select appropriate cutting equipment, inspecting for safe operation and identifying faults 1.3 Set and adjust cutting equipment for use, according to material type and job specifications 1.4 Identify cutting list from work plan and plan cutting processes to ensure minimal waste
2. Undertake cutting processes	2.1 Identify and use personal protective equipment (PPE) according to workplace procedures and work health and safety (WHS) requirements

Elements	Performance Criteria
	2.2 Check equipment safety stops and guards, adjusting if necessary 2.3 Operate equipment according to manufacturer instructions and workplace procedures 2.4 Inspect and cut material according to job specifications 2.5 Identify cutting defects and take corrective action
3. Complete work processes	3.1 Clean and maintain work area and equipment according to workplace procedures 3.2 Identify, tag and report faulty cutting equipment 3.3 Complete cutting list and give to appropriate personnel

Foundation Skills

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

Skills	Description
Learning skills to:	• draw on prior knowledge to identify job needs • locate, evaluate and organise job information.
Reading skills to:	• interpret workplace procedures and work health and safety (WHS) requirements • identify work orders and cutting list • interpret working drawings, job specifications and manufacturer instructions.
Writing skills to:	• prepare cutting list • complete faulty equipment tags.
Oral communication skills to:	• report machine faults.
Numeracy skills to:	• mark materials to specifications • calculate measurements from working drawings • identify quantities • follow cutting list.
Planning and organising skills to:	• select and use cutting equipment • plan cutting operation • prepare cutting equipment, materials and work area.

Self-management skills to:	- perform cutting activities within required workplace timelines - maintain equipment according to workplace procedures.
Problem-solving skills to:	identify machine faults.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AUMGTW002 Perform mechanical cutting (Release 2)	AUMGTW002 Perform mechanical cutting (Release 1)	Minor updates to Assessment Requirements. Performance Criteria changed from passive to active voice. Rationalisation of Range of Conditions.	Equivalent

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 demonstrated mechanical cutting on a minimum of three occasions.

Individuals must demonstrate they can:

- identify and apply mechanical cutting information and job specifications
- prepare cutting list and plan cutting processes
- set up and use mechanical cutting equipment according to workplace procedures, work health and safety (WHS) requirements, and working drawings
- inspect and cut material according to job specifications, operating equipment according to manufacturer instructions and workplace procedures
- identify, tag and report faulty cutting equipment
- complete cutting list.

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:

- WHS requirements, personal protective equipment (PPE) and workplace procedures relating to operating mechanical cutting equipment
- types, applications and operation of mechanical cutting equipment
- procedures for setting up and operating mechanical cutting equipment
- material-handling techniques relating to performing mechanical cutting
- methods for preparing cutting lists.

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 cutting operations that they have performed, e.g. production 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:

- workplace or simulated workplace
- WHS equipment and personal protective equipment (PPE) required for mechanical cutting operations
- mechanical cutting equipment
- material for cutting
- marking and measuring equipment relevant to performing mechanical cutting
- working drawings and cutting specifications
- work sheets relating to performing mechanical cutting operations.
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