



**Australian Government**

# **MEM05024 Perform welding supervision**

**Release: 1**

## MEM05024 Perform welding supervision

### Modification History

Release 1. Supersedes and is equivalent to MEM05024B Perform welding supervision

### Application

This unit of competency has been developed for post trade training of advanced engineering fabrication trades people and the recognition of post trade skills instructing and qualifying welders in accordance with weld procedures.

It defines the skills and knowledge required to instruct and qualify welders in accordance with weld procedures, including maintaining quality and safety procedures.

Competencies in this unit are based on wide knowledge of welding science, processes, procedures and technical requirements. Individuals working in this field would hold at least one certificate satisfying the requirements of AS 1796-2001 (R2016) Certification of welders and welding supervisors, Certificate 1-9.

The supervision, training and qualification of welders in welding procedures are defined by recognised codes and standards e.g. AS 2214-2004 (R2016) Certification of welding supervisors - Structural steel welding and AS 1796-2001 (R2016) Certification of welders and welding supervisors, Certificate 10.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

**Band: B**

**Unit Weight: 12**

### Pre-requisite Unit

MEM05026	Apply welding principles
MEM09002	Interpret technical drawing
MEM11011	Undertake manual handling
MEM12023	Perform engineering measurements
MEM12024	Perform computations
MEM13015	Work safely and effectively in manufacturing and engineering
MEM14006	Plan work activities
MEM16006	Organise and communicate information

## Competency Field

Fabrication

### Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- |   |  |     |  |
|---|--|-----|--|
| 1 | <b>Determine job requirements</b>              | 1.1 | Follow standard operating procedures (SOPs)  |
|   |  | 1.2 | Comply with work health and safety (WHS) requirements at all times                       |
|   |  | 1.3 | Use appropriate personal protective equipment (PPE) in accordance with SOPs              |
|   |  | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions |
|   |  |     |  |
| 2 | <b>Determine and prepare welding procedure</b> | 2.1 | Instruct welders according to SOPs   |
|   |  | 2.2 | Determine welding parameters in accordance with weld procedures                          |
|   |  | 2.3 | Plan variables and sequence checks against documentation                                 |
|   |  | 2.4 | Prepare documentation for record keeping   |
|   |  |     |  |
| 3 | <b>Qualify welders to required procedures</b>  | 3.1 | Train welders in relevant weld procedures  |
|   |  | 3.2 | Test welders against relevant weld procedures  |
|   |  | 3.3 | Maintain welder performance reports against weld procedures                              |
|   |  |     |  |
| 4 | <b>Monitor/maintain quality assurance and</b>  | 4.1 | Monitor internal quality assurance plan  |
|   |  | 4.2 | Ensure traceability of materials   |

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
	<b>safety procedures</b>	4.3	Ensure welding is supervised to compliance with prescribed specifications and/or documented procedures and/or safety procedures
5	<b>Prepare documents</b>	5.1	Record procedure against pre-qualifying procedures
		5.2	Record findings on internal quality assurance plan
6	<b>Arrange for non-destructive testing and destructive testing</b>	6.1	Arrange weld tests appropriate to the weld procedure
		6.2	Verify non-destructive testing/destructive testing reports against job requirements and specifications

## Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

No range of conditions provided for this unit.

## Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM05024B Perform welding supervision

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>