



Australian Government

MEM05014 Monitor quality of production welding/fabrications

Release: 2

MEM05014 Monitor quality of production welding/fabrications

Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM05014 Monitor quality of production welding/fabrications (Release 1).

Release 1. Supersedes and is equivalent to MEM05014C Monitor quality of production welding/fabrications.

Application

This unit of competency defines the skills and knowledge required to perform basic inspection of completed or partly completed welded fabrications produced by others in a production environment.

It is used to monitor the quality of production fabrication work where knowledge of the welding techniques and testing procedures is required. Duties are carried out in consultation with an appropriately qualified supervisor or engineer.

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

Band: A

Unit Weight: 2

Pre-requisite Unit

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
MEM18001	Use hand tools
MEM18002	Use power tools/hand held operations

Plus, one or more of the following including prerequisites

MEM05004	Perform routine oxy fuel gas welding
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MEM05012	Perform routine manual metal arc welding
MEM05049	Perform routine gas tungsten arc welding
MEM05050	Perform routine gas metal arc welding
MEM05056	Perform routine flux core arc welding
MEM05057	Perform routine submerged arc welding

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	Determine job requirements	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
		1.5	Confirm requirements through consultation with a suitably qualified supervisor or engineer
2	Monitor quality of welded products	2.1	Carry out inspection procedures in accordance with SOPs
		2.2	Report non-conforming welds and initiate corrective action according to SOPs
		2.3	Use pre-set gauges to monitor quality of product
3	Initiate testing when required	3.1	Implement test requirements according to SOPs and any legislative or regulatory requirements

Elements describe the essential outcomes.

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

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| 4 | Undertake procedures for reporting | 4.1 | Collect weld test data in accordance with SOPs |
| | | 4.2 | Prepare reports as required |

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

This field allows for different 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.

Inspection procedures include one (1) or more of the following:

- visual
- gauges inspections

Unit Mapping Information

Release 2. Supersedes and is equivalent to MEM05014 Monitor quality of production welding/fabrications (Release 1).

Release 1. Supersedes and is equivalent to MEM05014C Monitor quality of production welding/fabrications.

Links

Companion Volume implementation guides are found in VETNet -

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