



Australian Government

MEM05003 Perform soft soldering

Release: 1

MEM05003 Perform soft soldering

Modification History

Release 1. Supersedes and is equivalent to MEM05003B Perform soft soldering

Application

This unit of competency defines the skills and knowledge required to perform soft soldering applications of ferrous and non-ferrous materials, using straightforward techniques, where heat damage to components or finish of soldered joint is not critical.

Where the interpretation of technical drawings is required unit MEM09002 Interpret technical drawing should also be selected.

Where the selection and use of engineering measuring equipment is required unit MEM12023 Perform engineering measurements should also be selected.

Where the selection and use of tools is required unit MEM18001 Use hand tools and unit MEM18002 Use power tools/hand held operations, should also be selected as appropriate.

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

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
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.
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1	Determine job	1.1	Follow standard operating procedures (SOPs)
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Elements describe the essential outcomes.

requirements

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

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|---|---------------------------------|-----|--|
| | | 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, sketches, job sheets or work instructions |
| 2 | Undertake soft soldering | 2.1 | Assemble tools, equipment and consumables appropriate to the task and prepare for use |
| | | 2.2 | Prepare, arrange and check materials to be soldered to ensure solder joint meets specifications, as required |
| | | 2.3 | Use correct techniques to apply soft solder according to SOPs |
| | | 2.4 | Clean and check solder joint for compliance to specifications and rectify any identified faults |

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.

Preparation includes one (1) or more of the following:

- cleaning
- deburring
- twisting of conductors
- fluxing

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Materials include one (1) or more of the following:

- ferrous
- non-ferrous

Tools include one (1) or more of the following:

- all types of soldering irons
- direct flame
- other heating devices

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

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