



Australian Government

MEM03004 Perform electronic/electrical assembly (production)

Release: 1

MEM03004 Perform electronic/electrical assembly (production)

Modification History

Release 1. Supersedes and is equivalent to MEM03004B Perform electronic/electrical assembly (production)

Application

This unit of competency defines the skills and knowledge required to identify and assemble electronic/electrical components and to test the assembled components for conformance to job sheets/specifications. It includes the use of automatic wave soldering machines.

Where the selection and use soldering skills is required unit MEM05001 Perform manual soldering/desoldering - electrical/electronic components and unit MEM05002 Perform high reliability soldering and desoldering, should also be selected as appropriate.

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

Where the selection and use of manual handling is required unit MEM11011 Undertake manual handling should also be selected.

Where the selection and use of measurement skills is required unit MEM12002 Perform electrical/electronic measurement 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: 8

Pre-requisite Unit

MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

Competency Field

Assembly

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 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, sketches, job sheets or work instructions |
| | | | |
| 2 | Select assembly equipment | 2.1 | Select assembly equipment and use in accordance with instructions or job sheets to SOPs |
| | | 2.2 | Use equipment in a safe manner according to SOPs |
| | | | |
| 3 | Identify electronic/electrical components | 3.1 | Identify common name, appearance, and colour of electronic and electrical components |
| | | 3.2 | Identify polarity indicators on components |
| | | | |
| 4 | Assemble components | 4.1 | Select correct components by code/colour or other identification methods |
| | | 4.2 | Prepare components/devices for soldering or other termination methods |
| | | 4.3 | Connect cables to a variety of plug and socket combinations, as required |
| | | 4.4 | Handle and store components safely using appropriate anti-static handling procedures and techniques in accordance with procedures |
| | | 4.5 | Produce assembly following correct sequence of operations |

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.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM03004B Perform electronic/electrical assembly (production)

Links

Companion Volume implementation guides are found in VETNet -

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