



Australian Government

MEM10002 Terminate and connect electrical wiring

Release: 1

MEM10002 Terminate and connect electrical wiring

Modification History

Release 1. Supersedes and is equivalent to MEM10002B Terminate and connect electrical wiring

Application

This unit of competency defines the skills and knowledge required to terminate, disconnect or reconnect electrical wiring, including all types of cords and cables and circuits, excluding specialist cables.

All testing is undertaken on completed circuits where these are not connected to main supply, using appropriate methods including continuity and resistance checks.

Where soldering/desoldering of electrical/electronic components is required see unit MEM05001 Perform manual soldering/desoldering - electrical/electronic components and unit MEM05002 Perform high reliability soldering and desoldering, as appropriate.

Where termination and connection of specialist cables such as mineral insulated, steel wire and armoured cables is required see unit MEM10011 Terminate and connect specialist cables.

This unit does not cover the competencies required for energising and testing of the circuit.

Some jurisdictions may require the holder of this unit to be licensed or certified and users should check with the relevant authorities.

Band: A

Unit Weight: 3

Pre-requisite Unit

MEM09002	Interpret technical drawing
MEM12002	Perform electrical/electronic measurement
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools

Competency Field

Installation and commissioning

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, drawings, job sheets or work instructions |
| 2 | Prepare for electrical wiring termination and connection | 2.1 | Undertake all work safely and to workplace procedures and state/territory regulations and legislative requirements |
| | | 2.2 | Check materials for correct specifications |
| | | 2.3 | Undertake preparation of work or check/inspect for correct location and specifications of cable trays, brackets and trenches |
| 3 | Connect electrical wiring | 3.1 | Ensure terminations/connections are made to specifications, manufacturers' requirements and to safety and state/territory regulations and legislative requirements |
| | | 3.2 | Adjust and fix all brackets, clamps and holders to specifications |
| | | 3.3 | Ensure all cables, wires, conductors and connections are marked/tagged and labelled to specification |
| | | 3.4 | Test terminated cables to ensure continuity and insulation resistance readings comply with requirements |
| | | 3.5 | Complete all reports and documentation correctly to required 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

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.

Electrical wiring includes one (1) or more of the following:

- wiring associated with:
 - control wiring
 - machinery
 - other electrical apparatus

Terminations/connections include one (1) or more of the following:

- clamping
- crimping
- pin connection
- soldered joints
- plugs
- sockets
- clamping of cables and wires and sealing entry points where required

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM10002B Terminate and connect electrical wiring

Links

Companion Volume implementation guides are found in VETNet -

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