



Australian Government

**MEM18049 Disconnect/reconnect fixed
wired equipment up to 1000 volts a.c./1500
volts d.c.**

Release: 1

MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.

Modification History

Release 1. Supersedes and is equivalent to MEM18049C Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.

Application

This unit of competency defines the skills and knowledge required to disconnect and reconnect equipment to all voltage levels up to 1000 volts a.c./1500 volts d.c.

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

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

Band:

This unit has dual status and is to be regarded as both a specialisation Band A unit and Specialisation Band B unit for progression to C7 (AQF level IV).

Unit Weight: 3

Pre-requisite Unit

MEM09002	Interpret technical drawing
MEM10002	Terminate and connect electrical wiring
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

Maintenance and diagnostics

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 | <ul style="list-style-type: none">1.1 Follow standard operating procedures (SOPs)1.2 Comply with work health and safety (WHS) requirements at all times1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs1.4 Identify job requirements from specifications, drawings, job sheets or work instructions |
| 2 Disconnect equipment | <ul style="list-style-type: none">2.1 Determine electrical characteristics of equipment and circuit by reference to circuit drawings, schematics, reference manuals, equipment specifications, identification plate and/or consultation with technical adviser2.2 Determine and record equipment characteristics, including direction of rotation, where appropriate2.3 Identify point/s of electrical isolation and isolate equipment in accordance with procedures2.4 Use all lock-off equipment and signage requirements appropriately2.5 Prove electrical isolation using appropriate techniques, procedures and test equipment2.6 Note, record and label conductor layout2.7 Disconnect conductors and terminate and make safe disconnected cables/connections |
| 3 Connect equipment | <ul style="list-style-type: none">3.1 Identify characteristics of the equipment to be connected and determine connection requirements3.2 Check circuit for safe isolation using appropriate test equipment, procedures and techniques3.3 Check connections and prepare conductors for |

Elements describe the essential outcomes.

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

termination

3.4 Connect conductors to equipment in accordance with specifications and regulatory requirements

3.5 Fasten/seal all cables/wires/conduit to specifications

3.6 Remove all lock-off equipment and signage

3.7 Check and test equipment and circuit for compliance with specifications and regulatory and legislative requirements

4 **Perform emergency first aid**

4.1 Assess situation to identify points of danger to the injured person and potential rescuer

4.2 Undertake rescue/recovery of injured person or provide assistance to injured person in accordance with recognised standards/procedures

4.3 Make contact with the appropriate medical and rescue authorities

4.4 Record details of first aid given

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.

Equipment includes:

- as defined in the licensing requirements, including electric

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motors, modular sensing switches and limit switches

Electrical isolation includes:

- safe disconnection of all electrical power to equipment or equipment supply circuits via switching, circuit breakers or fuses on circuits/equipment using up to 1000 volts a.c. or 1500 volts d.c. single or multi-phase supply

Test equipment and tools include one (1) or more of the following:

- voltmeters
- multimeters
- tong testers

Connect equipment includes:

- reconnection of existing equipment or the replacement on a 'like for like' basis with no alteration to existing fixed wiring and also includes the original connection of fixed wired equipment

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM18049C Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.

Links

Companion Volume implementation guides are found in VETNet -

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