

# MEM18063 Terminate signal and data cables

Release: 1

#### MEM18063 Terminate signal and data cables

### **Modification History**

Release 1. Supersedes and is equivalent to MEM18063B Terminate signal and data cables

#### **Application**

This unit of competency defines the skills and knowledge required to terminate signal and data cables and covers fixing, securing, identifying and marking conductors and cables.

Where termination of cables is undertaken to pre-determined specifications and procedures then unit MEM03004 Perform electronic/electrical assembly (production) should also be selected.

Where termination and connection of other cables is required unit MEM10002 Terminate and connect electrical wiring should also be selected.

Where termination and connection of specialist cables is required unit MEM10011 Terminate and connect specialist cables should also be selected.

Where higher levels of electrical/electronic measures are required unit MEM12004 Perform precision electrical/electronic measurement should also be selected.

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: A

Unit Weight: 4

## Pre-requisite Unit

MEM05001	Perform manual soldering/desoldering – electrical/electronic components
MEM09002	Interpret technical drawing
MEM11011	Undertake manual handling
MEM12002	Perform electrical/electronic measurement
MEM12023	Perform engineering measurements
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

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MEM18001 Use hand tools

## **Competency Field**

Maintenance and diagnostics

#### **Elements and Performance Criteria**

Elements and Performance Criteria				
Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.		
	Determine job	1.1	Follow standard operating procedures (SOPs)	
	requirements	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	Identify and mark conductors/cables	2.1	Identify cables and conductors using appropriate test equipment and techniques	
		2.2	Label cables and conductors in accordance with procedures, legislative requirements and statutory regulations to specifications	
2	D	2.1		
3	Prepare and terminate cable	3.1	Obtain termination requirements and specifications	
		3.2	Prepare cable ends and terminate cables to specifications, legislative requirements and statutory regulations utilising appropriate tools and techniques	
		3.3		
			Test/examine terminations for compliance with specifications	

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Fix/secure cables utilising appropriate fixing/securing

Fix/secure cables 4.1

4

Elements describe the essential outcomes.

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

techniques

#### **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.

Legislative requirements and statutory regulations include one (1) or more of the following:

- ACA Technical Standards AS/ACIF008, AS/ACIF009
- SAA Communications Cabling Manual (Open)
- AS/NZS 3000:2007 Electrical installations (known as the Australian/New Zealand Wiring Rules)
- Telecommunications Act 1997

Types of cables include one (1) or more of the following:

- thermocouple/compensator cables, including MIMS
- transmission cables
- thermoplastic/elastomer insulated/sheathed
- compensating cables
- coaxial
- telephone
- Category 5
- optical fibre
- extra low voltage control cables

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

- Krone tool
- cable strippers
- crimping tools, e.g. RJ45 crimping tool
- slitter tool
- pliers

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

- crimp
- wire wrap (non-insulated and pre-insulated)
- solder
- connectors
- · multi-terminal plugs and sockets,
- fibre optics
- coaxial
- terminal blocks

#### **Unit Mapping Information**

Release 1. Supersedes and is equivalent to MEM18063B Terminate signal and data cables

#### Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2

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