



Australian Government

MEM09004 Perform electrical or electronic detail drafting

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09004B Perform electrical/electronic detail drafting

Application

This unit of competency defines the skills and knowledge required to produce or make changes to electrical or electronic drawings under supervision using manual drafting or drawing equipment. It applies to all electrical and electronic areas, with drawings completed to AS 1102 Graphical symbols, or equivalent, and in accordance with predetermined design specifications and instructions.

Where a computer-aided drafting (CAD) system is used unit MEM09009 Create 2-D drawings using computer-aided design system and MEM09010 Create 3-D models using computer-aided design system, should also be selected as appropriate.

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

Band: B

Unit Weight: 8

Pre-requisite Unit

MEM09002	Interpret technical drawing
MEM09003	Prepare basic engineering drawing
MEM12023	Perform engineering measurements
MEM12024	Perform computations
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

Competency Field

Drawing, drafting and design

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	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Identify job requirements from specifications, job sheets or associated work instructions
2	Prepare electrical or electronic drawings	2.1	Draw schematic to indicate the relative positioning of electrical or electronic components
		2.2	Produce electrical or electronic drawings to include all relevant specifications
		2.3	Complete drawing to AS 1102 Graphical symbols or equivalent
3	Determine component and material requirements	3.1	Identify material and component requirements using design specifications
		3.2	Select required materials and components from supplier catalogues
4	Complete documentation	4.1	Complete drawings and associated documentation in accordance with SOPs
		4.2	Issue and store drawings and documentation in accordance with SOPs

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.

Drawings include the following:

- plans
- schematics
- layouts
- circuit diagrams
- charts

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>