



Australian Government

MEM09007 Perform advanced mechanical detail drafting

Release: 1

MEM09007 Perform advanced mechanical detail drafting

Modification History

Release 1. Supersedes and is equivalent to MEM09007B Perform advanced mechanical detail drafting

Application

This unit of competency defines the skills and knowledge required to use manual drafting or drawing equipment to produce mechanical assembly and layout detail drawings to AS 1100 Technical drawing or equivalent.

Skills covered by this unit are applied individually or in a team environment where comprehensive responsibility for the production of the drawing is exercised, and critical dimensions and associated tolerances are determined where required.

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

Where advanced structural detail drafting skills are required, unit MEM09008 Perform advanced structural detail drafting should be selected.

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

Band: B

Unit Weight: 4

Pre-requisite Unit

| | |
|----------|--------------------------------------------------------------|
| MEM09002 | Interpret technical drawing |
| MEM09003 | Prepare basic engineering drawing |
| MEM09005 | Perform basic engineering detail drafting |
| MEM09006 | Perform advanced engineering detail drafting |
| 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.

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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 | Identify job requirements job sheets or other associated work instructions |
| 2 | Prepare mechanical detail drawings | 2.1 | Produce all drawings to AS 1100 Technical drawing or equivalent |
| | | 2.2 | Determine dimensions of various components and insert appropriate symbols for limits and fits, surface texture and geometric tolerances |

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

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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>
