



Australian Government

MEM09008 Perform advanced structural detail drafting

Release: 1

MEM09008 Perform advanced structural detail drafting

Modification History

Release 1. Supersedes and is equivalent to MEM09008B Perform advanced structural detail drafting

Application

This unit of competency defines the skills and knowledge required to use manual drafting or drawing equipment to produce fabrication, structural assembly and layout 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 mechanical detail drafting skills are required, unit MEM09007 Perform advanced mechanical 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
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 | <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 Identify job requirements job sheets or other associated work instructions |
| 2 Prepare structural detail drawing | <ul style="list-style-type: none">2.1 Produce all drawings to AS 1100 Technical drawing or equivalent2.2 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>