



Australian Government

**Assessment Requirements for MEM09007
Perform advanced mechanical detail
drafting**

Release: 1

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Modification History

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

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- producing mechanical detail drawings to AS 1100 Technical drawing or equivalent including undertaking numerical operations, geometry and formula and calculations
- inserting appropriate symbols for all aspects of drawings including limits and fits, surface texture and geometric tolerances
- determining dimensions for various components to meet requirements.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures
- the application of AS1100 Technical drawings or equivalent to mechanical detail drawings
- function of each component within the assembly or layout
- manufacturing, fabrication and assembly procedures to be used in producing the components or assemblies
- reason for ensuring that all components are correctly orientated to existing or proposed structures and services
- reasons for updating or modifying drawings to incorporate changes to specifications, production, assembly and fabrication methods and availability of standard hardware items.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing advanced mechanical detail drafting at least to the level being assessed with relevant industry knowledge and experience

- satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Links

Companion Volume implementation guides are found in VETNet -

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