



Australian Government

Assessment Requirements for MEM09005 Perform basic engineering detail drafting

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09005B Perform basic engineering 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
- preparing layout, assembly and component drawings to AS 1100 Technical drawing in line with SOPs in plane orthogonal, isometric projection or equivalent, including auxiliary views and sections
- applying dimensions and labelling using supplied tolerances
- producing drawings to specifications using standard symbols to AS 1100 Technical drawing or equivalent
- undertaking numerical operations, geometry, calculations and formulae associated with performing basic engineering detail drafting
- compiling a component and materials list
- completing documentation according to SOPs.

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
- appropriate projection for the drawing purpose and reasons for selection
- reasons for including auxiliary views in drawings
- requirements of AS 1100 Technical drawing or equivalent with respect to dimensions, tolerances and labels
- procedures for producing component, layout and assembly drawings, and uses of drawings
- numerical operations, geometry, calculations and formulae associated with performing basic engineering detail drafting
- common symbols used in drawings to AS 1100 Technical drawing or equivalent
- design specifications of components
- appropriate components and materials from supplier catalogues and reasons for selection.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing basic engineering 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>