



Australian Government

Assessment Requirements for MEM30032 Produce basic engineering drawings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM30032A Produce basic engineering drawings.

Performance Evidence

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

- producing basic engineering drawings to AS 1100.101 Technical drawing – General principles on at least two occasions
- producing drawings in orthogonal and isometric projection to AS 1100.101 Technical drawing - General principles, on at least two occasions
- producing drawings in third angle projection, including auxiliary views, sections and assemblies on at least two occasions including all details, symbols and notations on drawings.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

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:

- layout conventions
- effective use of blank space, location of notes and symbols
- sectioning
- graphical techniques at an overview level
- assembly and explosion drawings
- schematics/line drawings, graphs and pictorials
- standard engineering drawing symbols, references and terminology
- application of surface finish symbols to drawings
- uses of scales
- uses and types of line weights
- uses and types of drawing sheets
- type of information provided with drawings.

Assessment Conditions

- Assessors must:

- have vocational competency in producing basic engineering drawings 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 that 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>