



Australian Government

Assessment Requirements for MEM09204 Produce basic engineering detail drawings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09204A Produce basic engineering detail 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:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- obtaining and interpreting instructions and specifications necessary to produce the drawing on at least two occasions
- planning and sequencing operations
- checking and clarifying task-related information
- using computer technologies and navigating software
- interpreting technical information and conducting mathematical problem solving
- applying spatial principles to achieve scale and proportion on at least two occasions
- using drafting equipment appropriate to the drawing method chosen on at least two occasions
- recording completed drawings and parts lists in accordance with standard operating procedures (SOPs)
- handling and storing the approved drawings and parts lists in accordance with standard operating procedures (SOPs).

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:

- safe work practices and procedures
- general knowledge of different approaches to drawing
- awareness of copyright and intellectual property issues and legislation in relation to drawing
- quality assurance procedures
- standard drawing conventions
- drawing techniques
- principles of plane geometry

- drawing construction including four centre method, ordinate method, sectioning isometric shapes and dimensions and notations
- requirements and purpose of the drawing to be produced
- requirements and purpose of the engineering parts list
- sources of relevant data and information
- timeframe for completion of drawings
- persons authorised to confirm drawing requirements.
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Assessment Conditions

- Assessors must:
 - have vocational competency in measuring and sketching site information 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.
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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>