



Australian Government

Assessment Requirements for MEM09222 Interpret and maintain or restore original drawings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09222A Interpret and maintain or restore original 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
- interpreting work and specifications and using reference material to obtain required information for drawing work
- analysing historical detail drawings and blueprints on at least two occasions to determine requirements for presentation, maintenance or restoration
- applying treatment or preservation techniques to restore or maintain document on at least two occasions, ensuring storage and filing conditions are prepared
- using manual drafting equipment appropriate to the drawing and restoration method to complete task
- reproducing the original drawings as detailed engineering drawings in electronic format using computer-aided design (CAD) tools and software on at least two occasions to Australian Standard (AS) 1100.101 Technical drawing - General principles
- applying spatial principles to achieve scale and proportion
- performing required calculations to complete drawing to specifications
- confirming drawing accurately reflects specifications and plotting or printing final drawing to a standard scale
- issuing and filing drawing in accordance with SOPs
- complying with organisational policies and procedures including quality requirements.

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
- different approaches to drawing including historical methods used, drawing conventions, construction techniques and use of drawing materials
- copyright and intellectual property issues and legislation in relation to drawing

- manual drawing equipment
- quality assurance procedures
- principles of plane geometry including geometric shapes, plane geometry and geometric construction
- drawing construction including four centre method, ordinate method, sectioning isometric shapes, dimensions, notations and line types
- requirements and purpose of the drawing to be produced
- sources of relevant information
- timeframe for completion of drawings
- persons who can confirm drawing requirements
- treatment, preservation and storage requirements for old blueprints and drawings.
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Assessment Conditions

- Assessors must:
 - have vocational competency to interpret and maintain or restore original 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.
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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>