



Australian Government

Assessment Requirements for MEM09212

Produce detailed drawings of steel to non-steel connections

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09212A Produce detailed drawings of steel to non-steel connections.

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
- determining purpose and scope for drawing requirements relevant to the project utilising all available information
- determining the type of component and connection for inclusion in the drawing on at least two occasions
- identifying materials to prevent electrolysis of dissimilar metals when joined and providing appropriate counter measures
- producing detail drawings of steel to non-steel connections that meet industry standards, organisational standards and client requirements on at least two occasions
- confirming final drawing accurately reflects specifications
- presenting and storing drawing in accordance with 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
- sources of information
- effects of electrolytic action from dissimilar materials
- knowledge of different approaches to drawing
- copyright and intellectual property issues and legislation in relation to drawing
- quality assurance procedures
- industry standards
- SOPs for CAD
- order of drawing process
- features of components and connections

- geometric tolerances with regard to the roundness, straightness, flatness and concentricity of an engineering component
- SOPs for checking drawings
- layout and presentation requirements for drawings
- relevant statutory and authority requirements
- terminology associated with drawings
- process of storing paper drawings and electronic drawing files
- Australian standard bolting category identification system.

Assessment Conditions

- Assessors must:
 - have vocational competency to produce detailed drawings of steel to non-steel connections 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>