



Australian Government

Assessment Requirements for MEM09219 Prepare drawings for fabricated sheet metal products

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09219A Prepare drawings for fabricated sheet metal products.

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 project specifications and industry standards for fabricated sheet metal products in mild steel and stainless steel using fabrication techniques, including forming and shaping plate sheet and tubular ferrous and non-ferrous metal
- interpreting appropriate thermal and mechanical cutting and joining techniques
- applying specifications for fabricated sheet metal products
- producing detail drawings of fabricated sheet metal products according to industry standards and conventions on at least two occasions
- performing required calculations to complete drawing to specifications
- applying spatial principles to achieve scale and proportion
- confirming drawing accurately reflects specifications
- documenting and storing 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
- relevant codes of practice
- industry standards, drawing symbols and conventions
- different approaches to drawing and drawing details
- features and uses of materials and components used in sheet metal fabricated products
- characteristics of sheet metal and implications for drawing
- techniques used to fabricate sheet metal products.
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Assessment Conditions

- Assessors must:
 - have vocational competency in preparing drawings for fabricated sheet metal products 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>