



Australian Government

Assessment Requirements for MEM09217 Prepare plans for pipe and duct fabrication

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09217A Prepare plans for pipe and duct fabrication.

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 pipework and duct fabrication
- selecting methods of joining and cutting pipe and duct
- selecting methods of supporting pipework
- providing instructions for electrolysis of dissimilar materials on plans
- applying spatial principles to achieve scale and proportion to plans
- preparing drawings for pipe fabrication on at least two occasions
- preparing drawings for pipe installation on at least two occasions
- preparing drawings for duct fabrication on at least two occasions
- preparing drawings for duct installation on at least two occasions
- confirming plans accurately reflect specifications
- documenting and storing plans 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
- duct construction
- types of duct
- types of duct insulation (materials and facings)
- pipe construction materials

- pipework insulation
- methods for supporting pipe and duct
- sketching pipe and duct fabrication joining methods for pipe and duct work
- brackets and supports
- electrolysis and methods to reduce it between dissimilar materials.
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Assessment Conditions

- Assessors must:
 - have vocational competency in preparing plans for pipe and duct fabrication 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>