



**Australian Government**

# **Assessment Requirements for MEM09211 Produce drawings or models for industrial piping**

**Release: 1**

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## Modification History

Release 1. Supersedes and is equivalent to MEM09211A Produce drawings or models for industrial piping.

## 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 or model requirements
- analysing piping system fittings and components for inclusion
- producing fully notated and detailed drawings for commercial or industrial piping systems on at least two occasions
- confirming work accurately reflects specifications
- documenting and storing work 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 for information
- different approaches to drawing and modelling
- copyright and intellectual property issues and legislation in relation to drawing
- quality assurance procedures
- Australian standard specification of pipes, fittings and flanges
- standard valves and auxiliary equipment
- auxiliary equipment used in industrial piping
- principles of producing orthogonal and isometric piping drawings
- types of piping drawings
- types of pipe fittings and components
- different types of industrial pipe systems
- terminology associated with industrial piping systems
- environmental considerations.

## Assessment Conditions

- Assessors must:
  - have vocational competency in producing drawings or models for industrial piping 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>