



Australian Government

Assessment Requirements for MEM09206 Produce drawings for mechanical services

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09206A Produce drawings for mechanical services.

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
- identifying features and location of temperature and pressure, air and fluid measuring devices and standard control devices for inclusion in drawing on at least two occasions
- producing industry standard detail drawings for mechanical services industry on at least two occasions, including installation of heating and cooling systems, air conditioning and exhaust systems and refrigeration systems
- verifying parameters of the design brief with appropriate personnel, ensuring drawing meets requirements
- consulting with appropriate support services and presenting and explaining drawing.

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
- copyright and intellectual property issues and legislation in relation to drawing
- where to find drawing standards, codes and industry regulations
- quality assurance procedures
- organisational standards for computer-aided drawing (CAD), duct and pipe
- order of drawing process
- SOPs for checking drawings
- layout and presentation requirements
- environmental implications of system inefficiencies

- heating and cooling systems and equipment and their operating principles
- pressure and temperature measurement devices and their operating principles
- air conditioning equipment and their operating principles
- exhaust systems and their operating principles
- refrigeration equipment and their operating principles.

Assessment Conditions

- Assessors must:
 - have vocational competency in producing mechanical services 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.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>