



Australian Government

**Assessment Requirements for MEM09229
Read and interpret technical engineering
drawings**

Release: 1

Assessment Requirements for MEM09229 Read and interpret technical engineering drawings

Modification History

Release 1. New unit.

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
- selecting, checking and validating technical engineering drawings against job requirements or equipment
- reading and interpreting technical engineering drawings through recognition of components, assemblies, objects and symbols on at least two occasions
- identifying units of measurement and dimensions on at least two occasions
- interpreting drawing conventions appropriate to technical engineering disciplines on at least two occasions
- preparing materials and components lists.

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
- application of AS 1100.101 Technical drawing – General principles, other relevant Australian and international standards, or their equivalents from other technical engineering disciplines as relevant to the workplace
- conventions used in technical engineering drawings
- relationship between views in technical drawings
- instructions contained in technical engineering drawings
- materials from which drawing objects are made, their features and manufacturing and assembly requirements.

Assessment Conditions

- Assessors must:

- have vocational competency in reading and interpreting technical engineering 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. This must 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>