



Australian Government

**Assessment Requirements for MEM09021
Interpret and produce drawings of curved
3-D shapes**

Release: 1

Assessment Requirements for MEM09021 Interpret and produce drawings of curved 3-D shapes

Modification History

Release 1. Supersedes and is equivalent to MEM09021B Interpret and produce curved 3-dimensional shapes

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- determining drawing requirements
- applying drafting procedures to produce curved 3-D shapes using appropriate drawing equipment ensuring they are consistent with operation procedures and industry requirements
- undertaking numerical operations, geometry, calculations and formula associated with interpreting and producing curved 3-D shapes
- submitting completed drawings to applicable personnel and supplying altered offset measurements and all relevant information.

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
- vessel design characteristics, including performance, stability and construction methods
- data requirements for producing lines plan drawings
- numerical operations, geometry, calculations and formulae
- spatial concepts
- drawing techniques and procedures and use of equipment
- industry standards, terminology and symbols applying to lines plan drawings.

Assessment Conditions

- Assessors must:
 - have vocational competency in interpreting and producing curved 3-D shapes 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>