



Australian Government

Assessment Requirements for MEM12007 Mark off/out structural fabrications and shapes

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM12007 Mark off/out structural fabrications and shapes (Release 1).

Release 1. Supersedes and is equivalent to MEM12007D Mark off/out structural fabrications and 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
- identifying and interpreting specifications and drawings for fabrication requirements, including materials, measurements and tolerances, joining methods, standards and code requirements
- carrying out all marking off/out using appropriate marking out tools and equipment to specifications
- calculating measurements not shown on drawings, as required
- establishing and marking datum points
- selecting appropriate template material and producing templates to specifications
- storing templates, including labelling and identification, to procedures, as required
- developing patterns by selecting and applying appropriate development and/or measurement sequence and determining correct allowances for fabrication and assembly and transferring these measurements
- calculating allowances for fabrication and assembly, including shrinkage, thickness and inside/outside measurements, and transferring these measurements
- identifying and estimating quantities of materials from drawings with minimise wastage.

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 and use of personal protective equipment (PPE)
- procedures for marking off/out and pattern development
- tools and equipment to be used in the preparation of the marking off/out
- datum points
- materials that can be used for the preparation of templates and their application
- manufacturing allowances that have to be considered when developing patterns
- template labelling and identification procedures and storage requirements of templates

- appropriate methods of development/marking off/out of a range of given objects
- appropriate fabrication and assembly allowances
- effects of material type and thickness on fabrication and assembly allowances
- sources of data on fabrication and assembly allowances
- relevant standards and codes and the meaning of symbols used
- requirements of the codes/standards applicable to the work to be done
- materials from which the component/assembly is to be manufactured
- benefits of minimising material wastage.

Assessment Conditions

- Assessors must:
 - have vocational competency in marking off/out structural fabrications and 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.
- Assessment must occur in a functioning workplace. Where assessment in the workplace would be unsafe, impractical or threatens the environment, assessment must occur in a sufficiently rigorous simulated environment that reflects the circumstances that would be experienced in a functioning workplace. Assessment must cover all aspects of workplace performance, including 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>