



Australian Government

**Assessment Requirements for MEM25002
Form and integrate fibre-reinforced
structures**

Release: 1

Assessment Requirements for MEM25002 Form and integrate fibre-reinforced structures

Modification History

Release 1. Supersedes and is equivalent to MEM25002B Form and integrate fibre-reinforced structures

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/templates to form and integrate fibre-reinforced structures
- selecting and gathering materials for the construction purpose
- selecting and using the appropriate hand and power tools, workshop equipment and machinery and checking component dimensions for compliance against templates/drawings in accordance with specifications
- selecting and mixing fixing/bonding materials in accordance with job specifications using appropriate tools and equipment
- selecting adhesive/filler materials and applying fixing/bonding methods for component integration and cutting and shaping/bevelling foams and timber/plywood reinforcements to specifications
- cleaning excess fixing/bonding material and disposing of waste following SOPs
- selecting post-curing method to suit job application
- disassembling, cleaning and storing equipment/accessories in accordance with procedures.

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)
- typical components, fibre reinforcement and core materials, resins and hardeners, fillers, release agents and pigment additives, their attributes and their uses
- chemical and physical properties of resins, mixing ratios, laminate thicknesses, strengths and curing properties
- drawings and templates and their construction role
- applicable codes and regulations
- hand tools, power tools, workshop equipment and machinery and their use

- method used to check component dimensions against drawings, templates and specifications
- procedures used to install component, fixing/bondage and mixing application
- methods of component integration
- procedures required in setting up and adjusting equipment
- relevant adhesive/filler and fixing/bonding methods
- procedures for forming/shaping and tools/machinery used
- importance of cleaning excess fixing/bondage material and waste disposal obligations and regulations
- post-curing methods, procedures and applications
- storage procedures.

Assessment Conditions

- Assessors must:
 - have vocational competency in forming and integrating fibre-reinforced structures 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>