



Australian Government

**Assessment Requirements for MEM26005
Make basic moulds for composites
fabrication**

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM26005A Make basic moulds for composites fabrication

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, formulas/recipes, batch sheets, product drawings, customer requests for making basic moulds for composites fabrication
- developing templates for hand moulds as required in accordance with procedures
- fabricating the mould, releasing the mould from plug and detailing the mould
- identifying faults both routine and potential and applying remedial action
- undertaking minor maintenance to tools and equipment in accordance with procedures
- minimising wastage
- completing all documentation and reports, including items requiring further action in accordance with SOPs.

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)
- current state/territory work health and safety (WHS) legislation, standards and codes of practice relevant to making basic moulds for composites fabrication
- finishing resins
- tooling materials and resins
- parting lines
- design criteria/brief
- reverse engineering
- shrinkage
- cure values
- correct release agent
- thermal expansion
- open/closed mould (e.g. flange width and draft)
- resin transfer moulding (RTM) – metal versus composite mould

- closed mould (e.g. A/B side, bag it and silicon blanket)
- corners and undercuts.

Assessment Conditions

- Assessors must:
 - have vocational competency in making basic moulds for composites fabrication 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>