



Australian Government

Assessment Requirements for MEM26004 Make basic plugs for composites fabrication

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM26004A Make basic plugs 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, industry codes of practice and government regulations for making basic plugs for composites fabrication
- liaising with mould maker to determine plug features
- calculating surface area, required resin volume and resin content
- making plugs as required in accordance with procedures
- identifying faults both routine and potential and applying remedial action
- undertaking minor maintenance to tools and equipment in accordance with procedures
- minimising wastage
- labelling and storing plug
- cleaning and replacing tools for next use
- 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)
- finishing resins
- tooling materials and resins
- methods used to calculate surface area, required resin volume and resin content
- batch scale formulae for resin system
- 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 plugs 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>