



Australian Government

**Assessment Requirements for MEM26009
Select and use cores and fillers appropriate
for product**

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM26009A Select and use cores and fillers appropriate for product

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, safety data sheets (SDS), formulas/recipes, batch sheets, product drawings and customer requests for selecting and using cores and fillers appropriate for product
- considering all reasonably available core and/or fillers when selecting and choosing the appropriate product
- preparing cores, as required
- preparing fillers, as required
- fabricating a sample and conducting/organising relevant test and evaluating the test results and making any required changes, as appropriate
- fabricating the final product using selected process and minimising waste as per specifications
- identifying areas for improvement and taking appropriate action
- 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 selecting and using cores and fillers appropriate for product
- types of cores
- chemical makeup of cores, including urethane, polyvinyl chloride (PVC), styrene acrylonitrile (SAN) (e.g. Corefell), polymethacrylimide (PMI) (e.g. Rohacell), wood (e.g. end grain balsa), cellulose (e.g. phenolic coated paper), polypropylene (PP), polyethylene (PE), aluminium honeycomb and aramid honeycomb (e.g. Nomex)
- types of fillers including syntactic foam

- machining techniques
- function of cores and fillers
- bonding of cores and fillers
- wettability of cores and fillers by the resin
- properties of cores and fillers and their contributions to the properties of the composite
- interrelationship between cores, fillers and matrix
- modes of core failure
- sustainability considerations
- SDS appropriate to the chemical makeup of cores selected.

Assessment Conditions

- Assessors must:
 - have vocational competency in selecting and using cores and fillers appropriate for product 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>