



**Australian Government**

**Assessment Requirements for MEM04006  
Operate sand moulding and core making  
machines**

**Release: 1**

# Assessment Requirements for MEM04006 Operate sand moulding and core making machines

## Modification History

Release 1. Supersedes and is equivalent to MEM04006B Operate sand moulding and core making machines

## 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 other applicable reference documents to operate sand moulding and core making machines
- selecting and inspecting pattern/core box for damage against specifications
- setting up pattern/core box in bolster and core box
- operating relevant machine to produce moulds/cores, including selecting appropriate moulding media
- filling moulds/cores to specifications
- unloading machine according to SOPs
- stripping, inspecting and painting moulds/cores as required
- assembling moulds/cores as required by specifications
- disposing of unwanted treated sand according to SOPs
- shutting down and cleaning machine
- completing all proformas and standard workplace forms as required.

## 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)
- characteristics and applications of sand and binding agents
- sand moulding and core making machine operation, fault identification, analysis and rectification procedures
- core selection and loading procedures.

## Assessment Conditions

- Assessors must:

- have vocational competency in operating sand moulding and core making machines 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>