



Australian Government

Assessment Requirements for MEM19010 Produce rubber moulds for lost wax casting process

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19010B Produce rubber moulds for lost wax casting process

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, job sheets or work instructions in producing rubber moulds for lost wax casting process
- selecting appropriate frame including various shapes and sizes, solid or component systems and preparing master frame
- cutting rubber using appropriate measurements, packing into frames and selecting variables of time, temperature and pressure for the appropriate curing system
- selecting and using appropriate tools and methods for the release of master without damage.

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)
- SOPs
- procedures for assessing frame system
- specific master requirements
- features and working limitations of rubber, including shrinkage and transparency, and procedures for assessing rubber and master suitability and compatibility
- packing techniques for a range of situations
- methods for establishing the appropriate time, temperature and pressure settings for the selected process
- stages in the process for mould curing, removal and cooling
- application of tools
- sequence of procedures for release of master
- placement of mould and vent lines.

Assessment Conditions

- Assessors must:
 - have vocational competency in producing rubber moulds for lost wax casting process 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>