



**Australian Government**

# **Assessment Requirements for MEM19011 Perform wax injection of moulds for lost wax casting process**

**Release: 1**

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## **Modification History**

Release 1. Supersedes and is equivalent to MEM19011B Perform wax injection of 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 to select wax type according to wax, model and cavity specifications
- conducting measurements and preparing moulds, including rectifying inappropriate mould features
- completing injection and removing duplicated wax pattern
- repairing, re-working, recycling or discarding imperfect wax patterns as required.
- checking duplicate for compliance with master and specifications and identifying irregularities.

## **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)
- wax types and characteristics
- procedures for wax injection equipment and processes for the given values of time, temperature and pressure
- characteristics of moulds
- injection procedures
- minor variations and adjustments to processes and equipment situations
- undamaged wax duplicate removal techniques for a range of situations
- procedures for wax duplicate inspection
- common irregularities
- causes and remedies of imperfections
- procedures for safe cleaning, disposal and safe storage.

## Assessment Conditions

- Assessors must:
  - have vocational competency in performing wax injection of 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>