



Australian Government

Assessment Requirements for MEM04012

Assemble plated patterns

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM04012 Assemble plated patterns (Release 1).

Release 1. Supersedes and is equivalent to MEM04012B Assemble plated patterns.

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, drawings, sketches and other applicable reference documents to assemble plated patterns
- undertaking relevant engineering calculations, including the determination of contraction rates
- inspecting patterns for conformance, laying out pattern and runner system and aligning pattern to specifications
- securely attaching cope and drag patterns/double sided match plate patterns to pattern plates, inspecting for alignment according to specifications
- attaching runner components pattern plates using appropriate fixing and joining techniques and adjusting volume of runner system to conform to specifications
- inspecting plated pattern assembly including surface and mouldability for compliance with specifications.

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)
- units of measurement, numerical operations and calculations associated with assembling plated patterns
- fixing and drilling techniques
- reason for using particular layout and runner system
- all types of plated patterns using a range of materials
- techniques for avoiding cross jointing or mismatch of the pattern and their relationship to the pin-centre
- methoding systems
- mouldability i.e. surface finish, face taper, convex or concave perspectives and undercuts

- moulding and casting techniques.

Assessment Conditions

- Assessors must:
 - have vocational competency in assembling plated patterns 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.
- Assessment must occur in a functioning workplace. Where assessment in the workplace would be unsafe, impractical or threatens the environment, assessment must occur in a sufficiently rigorous simulated environment that reflects the circumstances that would be experienced in a functioning workplace. Assessment must cover all aspects of workplace performance, including 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

The MEM Metal and Engineering Training Package Companion Volume Implementation Guide is available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>