



Australian Government

Assessment Requirements for MEM04039

Assemble plated patterns

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM04012 Assemble plated patterns (Release 2).

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications 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 on at least two occasions
- securely attaching cope and drag patterns or double sided match plate patterns to pattern plates, inspecting for alignment to specifications, on at least two occasions
- attaching runner components pattern plates using appropriate fixing and joining techniques and adjusting volume of runner system to conform to specifications, on at least two occasions
- inspecting plated pattern assembly including surface and mouldability for compliance with specifications.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

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
- types of plated patterns using different materials
- techniques for avoiding cross-jointing or mismatch of the pattern and their relationship to the pin-centre
- methoding systems

- mouldability including surface finish, face taper, convex or concave perspectives and undercuts
- moulding and casting techniques.
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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.
- 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 that 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.
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Links

Companion Volume implementation guides are found in VETNet -

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