



Australian Government

Assessment Requirements for MEM08020 Electroplate decorative finishes

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM08020B Electroplate decorative finishes

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
- determining the correct decorative finish electroplating treatment, method and process for a range of ferrous and non-ferrous components
- selecting, setting up and using electroplating equipment for decorative finishes and applying surface pre-treatment, as required
- carrying out the electroplating process, monitoring solutions and other parameters, adjusting as necessary to meet the specified surface finish
- cleaning and maintaining electroplating equipment, reporting any faults.

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)
- specific decorative electroplating pre-treatment processes (common base metals/soils and chemical/mechanical)
- effect of decorative treatment on different metals
- functions of strikes/activation treatment
- process parameters for decorative electroplating, including current computations
- effects of process parameters on performance
- post treatment processes
- relevant Australian standards for electroplating work
- application of different equipment to the type of work processed
- acceptable appearances including final specification/quality
- abnormalities in electroplating including types of defects and requirements for post treatment
- factors affecting plate distribution
- purpose and application of simple control tests
- calculations for additions/adjustments to decorative electroplating solutions
- effects of adding chemicals too quickly

- purification procedures/treatments
- operation of anodes, arrangements and remedial action
- effects of build-up on cathode contacts, damage to rack coatings
- effect of maintenance schedules on plant performance and performance requirements and basic maintenance checks for rectifier, bus bars, agitation, heating/cooling, extraction and tank linings.

Assessment Conditions

- Assessors must:
 - have vocational competency in electroplating decorative finishes 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>