



Australian Government

Assessment Requirements for MEM05002 Perform high reliability soldering and desoldering

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM05002B Perform high reliability soldering and desoldering

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
- planning to solder by selecting appropriate tools and hold, setting up and/or mounting device/component to specifications using appropriate techniques
- handling printed circuit boards, assemblies and components to prevent electrostatic discharge or mechanical damage
- undertaking high-level soldering
- preventing of damage through electrostatic discharge or other means using appropriate techniques
- inspecting/testing soldered joints visually and, where required, mechanically and electrically to ensure compliance with specifications and recording the results
- reworking/repairing faulty joints to specification, including desoldering.

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)
- cleaning solutions and properties and cleaning procedures
- methods of joint preparation
- properties of fluxes and their uses
- heat and damage protection procedures
- procedures for preventing electrostatic discharge damage
- soldered joint testing and inspection procedures
- reworking procedures and precautions.

Assessment Conditions

- Assessors must:

- have vocational competency in performing high reliability soldering and desoldering 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>