



**Australian Government**

# **Assessment Requirements for MEM05006 Perform brazing and/or silver soldering**

**Release: 1**

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## Modification History

Release 1. Supersedes and is equivalent to MEM05006C Perform brazing and/or silver soldering

## 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
- checking condition of equipment
- setting up:
  - gas cylinders
  - hoses
  - blowpipes
  - tips and nozzles
  - regulators
  - flashback arrestors
- preparing to braze and/or silver solder by assembling/aligning materials in an appropriate manner and applying distortion prevention methods to meet specifications
- applying consumables and brazing and/or silver soldering ferrous and non-ferrous materials
- annealing material using appropriate techniques
- inspecting joints and removing excess jointing materials and recording the results.

## 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)
- potential equipment faults
- reasons for selecting specific methods of assembly/alignment
- procedures for minimising distortion of the materials being brazed/braze welded/silver soldered
- procedures for assembling and setting up the specific heating equipment and reasons for selection
- reasons for selecting specific consumables

- procedures for preheating the materials to be joined and precautions to be observed
- conducting test runs
- procedures for normalising the temperature of jointed materials and the consequences of inappropriate techniques
- typical applications of brazing/braze welding and silver soldering processes
- procedures for removing excess jointing material
- effects of the use of inappropriate techniques and quantities of jointing material on the performance of the jointed materials
- procedures for inspecting brazed/braze welded/silver soldered joints.

## Assessment Conditions

- Assessors must:
  - have vocational competency in performing brazing and or silver soldering 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>