



**Australian Government**

# **Assessment Requirements for MEM05068 Apply welding procedure specifications**

**Release: 1**

# Assessment Requirements for MEM05068 Apply welding procedure specifications

## Modification History

Release 1. New Unit.

## 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 the ability to:

- review approved weld procedure specifications (WPS) for at least three fabrication designs requiring welding to at least AS1554 General Purpose (GP) or equivalent including:
  - comparing WPS requirements to design requirements and enterprise procedures
  - identifying required welding parameters
  - identifying sampling and test requirements
- use procedures for seeking clarifications and variations to approved WPS
- produce at least three test pieces consistent with different WPS
- perform fit up, joint preparation and welding including any required pre and/or post weld heating for at least two fabrication designs and their approved WPS.

*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:

- welding symbols and abbreviations used in Australian or equivalent international standards
- welding parameters
- typical methods to store and access current copies of WPS in an enterprise
- standard WPS formats and content headings
- procedures for production of test pieces for destructive and non-destructive tests (NDTs)
- types of welding related NDTs and their application
- procedures for:
  - verifying/amending previously established weld test procedures
  - completing welding against a WPS
- welding parameters included in WPS and how they vary depending on the specified welding process.

## Assessment Conditions

- Assessors must:
  - have vocational competency in developing and maintaining welding procedures 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.
- Knowledge assessment may be either verbal or written but must adequately reflect the knowledge requirements of the unit in a functioning workplace.
- 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>