



Australian Government

Assessment Requirements for MEM05078

Apply welding principles

Release: 1

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Modification History

Release 1. Unit code changed. Changes to prerequisites, elements and performance criteria, performance evidence and knowledge evidence. Supersedes and is not equivalent to MEM05026 Apply welding principles.

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:

- follow work instructions, standard operating procedures (SOPs) and safe work practices
- interpret and apply regulatory and safety requirements, including welding terms, codes and symbols as required by AS 1796 Certification of welders and welding supervisors or equivalent, and welding standards and codes plan for inclusion of:
 - safety precautions for self and others specific to a welding task
 - backing bars, plates and rings
 - appropriate pre-and post-heat treatment processes for different types of welded materials
- plan weld sequence and preparation of materials in a logical manner for welding job on at least two occasions
- integrate weld testing and sampling requirements into welding operations plan
- plan for visual and dimensional checks of completed welding tasks.

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 welding practices and procedures and use of personal protective equipment (PPE)
- welding terminology, including codes and symbols
- planning processes for set up and performance of welding including:
 - pre and post heat treatment
 - logical sequence for welding processes, positions and joints
 - correct alignment, fit-up and support during welding
 - tools, equipment and techniques used in welding.
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Assessment Conditions

Assessors must:

- have vocational competency in applying welding principles 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.
 - 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.
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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>