



Australian Government

Assessment Requirements for MEM05090 Weld using manual metal arc welding process

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM05015 Weld using manual metal arc welding process.

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 occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications from drawings, sketches and verbal or written job instructions for welding using manual metal arc welding process (MMAW) to the specified standard
- selecting appropriate weld and joint preparation methods
- consistently weld a range of materials to the specified standard or equivalent using alternating current (AC) or direct current (DC) welding machines and electrodes while preventing distortion
- rectifying any defects
- completing weld records related to MMAW onto standard workplace forms.
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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)
- material preparation for MMAW
- weld joint preparations
- welding electrode classification
- causes of distortion for materials when welded
- causes of weld defects and methods of rectification
- relationships between amperage, electrode and material
- standards for MMAW, including AS 1554 General Purpose any other equivalent standards.
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Assessment Conditions

- Assessors must:

- have vocational competency in welding using MMAW process 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.
- 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>