



Australian Government

Assessment Requirements for MEM05093 Weld using submerged arc welding process

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM05023 Weld using submerged 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 submerged arc welding (SAW) process to AS 1554 General Purpose (GP) or equivalent
- selecting appropriate weld and joint preparation methods
- consistently weld materials to the specified standard or equivalent using direct current (DC) welding machines and electrodes while preventing distortion
- rectifying any defects
- completing and maintaining weld records related to SAW welding 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)
- main types of fluxes and flux/wire combinations
- typical applications of SAW and common materials
- application of weld metal transfer (short arc and spray)
- material preparation
- joint preparations
- electrode classification
- causes of distortion for materials
- causes of defects and methods of rectification
- requirements of AS 1554 GP or equivalent.
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Assessment Conditions

- Assessors must:
- have vocational competency in welding using SAW 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.
 - 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.
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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>