



Australian Government

Assessment Requirements for MEM05094 Repair, replace and/or modify fabrications

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM05036 Repair, replace and/or modify fabrications.

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 and inspecting fabrication for defects/faults, non-compliance and determining suitability for repair/replacement/modification
- selecting material, marking out and safely cutting, bending, rolling, shaping or forming ensuring minimum wastage using correct principles, tools, equipment and procedures
- selecting appropriate welding equipment and preparing materials for welding, including pre-tack checks and set up jigs, fixtures and clamps
- consistently welding materials while preventing distortion and rectifying any defects and ensuring repair, replacement and/or modification is cleaned and finished and visually inspected to meet predetermined specifications
- completing and lodging maintenance report.
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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)
- characteristics of faults, defects and/or non-compliance and means of rectification by rework or additional work, or by replacement of components/materials
- effects of proposed modifications on the fabrication
- reasons for selection of specific materials, tools, equipment and consumables
- marking out principles and techniques
- material preparation processes
- clamping method(s) for the welds undertaken
- location of all materials to be welded
- weld specifications
- equipment, consumables and settings required to achieve the weld specification
- distortion minimisation procedures and methods for rectifying any distortion of materials

- material cleaning and finishing processes for the repair/replacement/modification
- reporting requirements.
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Assessment Conditions

- Assessors must:
- have vocational competency in repairing, replacing and modifying fabrications 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>