



Australian Government

MEASTR0025 Weld aircraft components using the manual metal arc welding process

Release: 1

MEASTR0025 Weld aircraft components using the manual metal arc welding process

Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA435 Weld aircraft components using the manual metal arc welding process.

Application

This unit describes the skills and knowledge required to apply knowledge of manual metal arc welding (MMAW) processes to welding applicable parent metal groups as specified by the regulators Civil Aviation Safety Authority (CASA) or Defence Aviation Safety Authority (DASA) during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the CASA and DASA.

The unit covers the development of competency elements required to gain approval within the CASA or DASA regulatory systems to weld aircraft components using the gas metal arc welding (GMAW) process. Individuals will be authorised to weld specific parent metal groups, as specified in CAAP 33-1(1) Aircraft manual welding: approvals and qualifications.

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

MEA107 Interpret and use aviation maintenance industry manuals and specifications

MEA154 Apply work health and safety practices in aviation maintenance

MEA156 Apply quality standards during aviation maintenance activities

MEA157 Complete aviation maintenance industry documentation

MEM05026 Apply welding principles

MEM05046 Perform welds to code standards using manual metal arc welding process

Competency Field

Aviation maintenance

Elements and Performance Criteria

Elements	Performance Criteria
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Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to perform repair or fabricate component using MMAW process	1.1 Identify materials or component to be welded and relevant parent metal group in accordance with applicable data 1.2 Select and set up welding equipment and consumables in accordance with standard enterprise procedures 1.3 Prepare component or materials is prepared for welding 1.4 Adjust equipment ready for welding process in accordance with equipment instructions
2. Manual metal arc weld component	2.1 Perform welding to the required standard in accordance with the applicable repair scheme or drawing while observing all relevant work health and safety (WHS) requirements, including using material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 2.2 Inspect completed welds for defects and rectify any detected defects to meet specifications and standards 2.3 Complete required documentation in accordance with standard enterprise procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret equipment information, welding requirements and repair schemes.
- Writing skills to complete documentation.
- Numeracy skills to interpret technical information including sketches and drawings, and data.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA435 Weld aircraft components using the manual metal arc welding process.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>

