



Australian Government

MEASTR0021 Braze weld aircraft components

Release: 1

MEASTR0021 Braze weld aircraft components

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 MEA431 Braze weld aircraft components.

Application

This unit describes the skills and knowledge required to apply knowledge of brazing or silver soldering to the brazing of applicable aircraft parent metal groups as specified by the regulators during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit covers the development of competency elements required to gain approval within the Civil Aviation Safety Authority (CASA) or the Australian Defence Force (ADF) regulatory systems to braze weld aircraft components. Individuals will be authorised to weld specific parent metal groups, as specified in CAAP 33-1(1) Aircraft manual welding: approvals and qualifications.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA). 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
MEM05006 Perform brazing and/or silver soldering
MEM05026 Apply welding principles

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 braze welding process	1.1 Identify materials or components to be brazed and related parent metal group in accordance with relevant data 1.2 Select and set up braze welding equipment and consumables (specified brazing rods and fluxes) in accordance with standard operating procedures 1.3 Prepare component or materials for braze welding in accordance with standard enterprise procedures 1.4 Adjust equipment ready for the brazing process in accordance with equipment instructions
2. Braze weld components	2.1 Perform braze 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 MEA431 Braze weld aircraft components.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>