



Australian Government

Assessment Requirements for MEASTR0021 Braze weld aircraft components

Release: 1

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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.

Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- use blaze welding techniques to weld at least three simulated aircraft components to the standards specified by the regulators Civil Aviation safety authority (CASA) or the Defence Aviation Safety Authority (DASA) and to specifications during scheduled or unscheduled maintenance and as specified in the AAP 33-1(1) Aircraft manual welding – Approvals and Qualifications
- safely apply braze welding techniques and principles in the context of welding aircraft components or materials
- select materials using in the construction of aircraft components that are suitable for braze welding
- apply blaze welding to components where it is specified as either a fabrication or repair technique
- work with each of the following items of welding equipment:
 - fuel gases
 - cylinders
 - regulators
 - hoses
 - torches
 - tips and nozzles.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- regulatory requirements applicable to aircraft welding
- standards for aircraft welding, including:
 - regulations relating to required test pieces
 - process specifications
 - repair manuals

- overhaul manuals
- Australian and New Zealand Standards
- the procedure for assessment of weld test pieces
- the use of braze welding in relation to specified aircraft parent metal groups, including:
 - aluminium alloys
 - magnesium alloys
 - carbon steels and low alloy steels
 - corrosion and heat resisting steels
 - nickel alloys
 - copper-based alloys
 - titanium alloys
- work health and safety (WHS) precautions for braze welding of aircraft components.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (DASA and CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in repairing and modifying aircraft metal structures. The following conditions must be met for this unit:

- Test pieces specified for each parent metal group for which approval is sought may be completed in the workplace or a simulated workplace. The individual must be provided with all required equipment, consumables, personal protective equipment (PPE), materials and data/drawings relating to the test pieces that are required for the approvals being sought
- Assessment of test pieces must be carried out in a testing facility that meets the requirements specified by the applicable Regulator
- Assessment methods are specified in the CAAP 33-1(1) Aircraft manual welding: approvals and qualifications.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

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