



Australian Government

MEASTR0020 Gas weld aircraft components

Release: 1

MEASTR0020 Gas 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 MEA430 Gas weld aircraft components.

Application

The unit describes the skills and knowledge required to apply knowledge of advanced welding skills using acetylene welding processes to welding 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 Defence Aviation Safety Authority (DASA) regulatory systems to gas 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

MEM05022 Perform advanced welding using oxy acetylene welding process

MEM05026 Apply welding principles

Competency Field

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to perform repair or fabricate	1.1 Identify materials or components to be welded and related parent

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
component using gas welding process	metal group in accordance with relevant data 1.2 Select and set up required welding equipment and consumables (specified filler rods and fluxes) in accordance with standard enterprise procedures 1.3 Prepare component or materials for welding in accordance with standard enterprise procedures 1.4 Adjust equipment ready for welding process in accordance with equipment instructions
2. Gas 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 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 MEA430 Gas 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>