



Australian Government

MEAMEC0054 Modify and repair aircraft composite structure using cold bonding

Release: 1

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Modification History

Release 1. Application changed. 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 MEA367 Repair/modify aircraft composite structure using cold bonding.

Application

This unit describes the skills and knowledge required to apply hand skills and use maintenance publications, applicable materials, tools and methods to repair aircraft composite material structure and components using cold cure repair techniques either on-aircraft or in the workshop during scheduled or unscheduled maintenance.

If this unit is selected, one of the following units should also be selected:

- MEASTR0001 Inspect aircraft structures
- MEA339 Inspect, repair and maintain aircraft structures
- MEAMEC0056 Inspect and maintain structures and related components of non-pressurised small aircraft

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

Nil

Competency Field

Aviation maintenance

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. Plan repair or modification	1.1 Assess the extent of damage, including using visual and tap test methods, to assist in determining modification or repair procedure 1.2 Support and prepare structure in accordance with the applicable

Elements	Performance Criteria
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	<p>maintenance manual to ensure personnel safety and freedom from damage, while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE)</p> <p>1.3 Identify appropriate modification or repair scheme in accordance with structural repair manual or approved data</p> <p>1.4 Obtain specialist advice in establishing an approved modification or repair scheme where a standard modification or repair scheme cannot be identified, or damage criteria are out of limits</p> <p>1.5 Organise required materials and equipment in accordance with maintenance manual</p>
2. Repair or modify components using cold cure	<p>2.1 Check lay-up of materials to confirm that components meet required specifications and bagging equipment is correctly installed and operated</p> <p>2.2 Regularly monitor curing cycle to ensure required specifications are met</p> <p>2.3 Check components for blemishes or delamination in accordance with quality procedures</p> <p>2.4 Make ready component assemblies requiring further or special treatment for the appropriate processes</p> <p>2.5 Complete required maintenance documentation and process in accordance with standard enterprise procedures</p> <p>2.6 Tag, seal and pack completed assemblies as required</p>

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 maintenance documentation and procedures.
- Writing skills to complete maintenance documentation.
- Numeracy skills to interpret and communicate technical information including drawings/sketches.

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 MEA367 Repair/modify aircraft composite structure using cold bonding.

Links

Companion Volume implementation guides are found in VETNet -

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