



Australian Government

MEASTR0019 Perform bolted repairs to composite skins

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 MEA425 Perform bolted composite skin repairs.

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 skin surfaces using bolted repair techniques during scheduled or unscheduled maintenance. Work may involve individual and team-related activities.

Applications include composite skin surfaces from fixed and rotary wing aircraft and aircraft components either on-aircraft or in the workshop.

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

- 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

MEASTR0001 Inspect aircraft structures

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

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	<p data-bbox="523 414 1374 481">maintenance manual to ensure personnel safety and freedom from damage</p> <p data-bbox="523 499 1410 566">1.3 Identify bolted repair scheme in accordance with structural repair manual and/or approved data</p> <p data-bbox="523 584 1414 651">1.4 Obtain specialist advice for approved repair scheme where a standard repair scheme cannot be identified or damage is out of limits</p> <p data-bbox="523 672 1426 739">1.5 Organise required materials and equipment required in accordance with repair procedure</p>
2. Repair components using bolted patches	<p data-bbox="523 786 1445 887">2.1 Clean up damage ready for repair while observing all relevant work health and safety (WHS) requirements, including using material safety data sheets (MSDSs) and items of personal protective equipment (PPE)</p> <p data-bbox="523 907 1430 974">2.2 Obtain patch material and fabricate patches in accordance with the applicable repair scheme</p> <p data-bbox="523 994 1107 1032">2.3 Obtain repair plug material and cut to size</p> <p data-bbox="523 1052 1453 1153">2.4 Fit patches and secure with fasteners in accordance with repair scheme while observing all relevant WHS requirements, including using MSDSs and items of PPE</p> <p data-bbox="523 1173 1182 1211">2.5 Apply sealant in accordance with repair scheme</p> <p data-bbox="523 1232 1153 1270">2.6 Perform required restoration on surface finish</p> <p data-bbox="523 1290 1374 1357">2.7 Complete and process required maintenance documentation in accordance with standard enterprise procedures</p> <p data-bbox="523 1377 1374 1444">2.8 Tag, seal or package completed assemblies in accordance with requirements</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 manuals and repair schemes and drawings or sketches.
- Writing skills to complete documentation.
- Numeracy skills to interpret technical information including sketches and drawings.

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 MEA425 Perform bolted composite skin repairs.

Links

Companion Volume implementation guides are found in VETNet – -

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