



Australian Government

**Assessment Requirements for
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.

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:

- perform bolted repairs to composite skins during scheduled or unscheduled maintenance through the application of repair patches on at least two of the following types of repair:
 - external
 - internal
 - external/internal combination
- identify aircraft composite materials and their basic properties by interpretation of markings and visual means for the repairs being performed to inform selection of repair scheme
- correctly interpret and produce repair scheme drawings or sketches
- use appropriate hand tools and machines to perform the above bolted repairs, including:
 - drilling/cutting equipment
 - material fasteners.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- aircraft construction principles and the causes of structural damage, including metal fatigue and corrosion
- structural fatigue preventative measures
- composite terminology and materials used, including their properties and applications in aircraft structures
- bolted repair methods
- types of patch material
- fastener types, specifications and identification
- plug materials
- use of scrim to prevent galvanic corrosion
- sealants used in bolted patch repairs and their application and handling

- paints and finishes for composite structure
- work health and safety (WHS) precautions for repairing aircraft structure
- how to access and apply material safety data sheets (MSDSs) for aircraft structural repairs
- relevant personal protective equipment (PPE) for aircraft structural repairs.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA) 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 during the installation of bolted repairs to composite skins. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to making bolted repairs to composite skins
 - general-purpose tools and test equipment found in most routine situations.

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

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>