



Australian Government

Assessment Requirements for MEASTR0012 Apply specialty coatings to aircraft

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 MEA417 Apply specialty coatings to aircraft.

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:

- apply specialty coatings to aircraft during scheduled or unscheduled maintenance on a minimum of two types of specialty coating on at least three application tasks
- apply cleanliness requirements, safety precautions and environmental protection procedures at all times, and as relevant to the surfaces and coatings being worked on.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant legislative, regulatory and enterprise procedures and maintenance publications, as outlined in:
 - Commonwealth, state and territory environmental legislation, regulations and codes for the storage and disposal of hazardous and toxic materials
 - material safety data sheets (MSDSs)
 - maintenance organisation manuals
 - procedures manuals
 - work instructions
 - relevant Defence regulations and instructions
 - standing instructions
- work health and safety (WHS) procedures for applying specialty aerospace coatings, including personal protective equipment (PPE), as outlined in:
 - Commonwealth, state and territory WHS legislation, regulations and codes
 - procedures manuals
 - safety manuals
 - work instructions
 - maintenance organisation manuals
 - MSDSs
 - Defence regulations and instructions

- standing instructions
- relevant data from manufacturers of specialty coatings
- how to obtain MSDSs
- criticality of areas of aircraft structure with regard to coating application
- cleaning processes and chemicals used to prepare surfaces for coating application
- types of specialty coatings, including:
 - specialised inner layer coatings
 - engine coatings
 - leading edge coatings
 - radome coatings
 - waterborne heatproof paints
 - walkway compounds
 - fuel tank coatings
 - heatproof coatings
 - electrical conductive coatings
- coating application methods
- materials and equipment typically used to apply specialty coatings, including:
 - chemicals
 - cleaning materials
 - specialty coating material
 - various spray guns
 - brush
 - roller
 - trowel
 - PPE
 - baking oven
 - heat lamps
 - electrical test equipment
 - wet film thickness gauges
- masking materials
- typical defects found in specialty coatings:
 - sags
 - runs
 - delamination
 - imperfections
 - dry spray
 - contamination
 - over-spray
 - egress

- environmental legislation and regulations relating to the storage, use and disposal of hazardous materials.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators Defence Aviation Safety Authority (DASA), Civil Aviation Safety Authority (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 applying specialty coatings to aircraft. 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 applying speciality coatings to aircraft
 - materials, tools and equipment specified in the maintenance manuals and applicable procedures
 - general and special-purpose tools and items of ground support.

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>