



Australian Government

MEASTR0010 Paint aircraft surfaces

Release: 1

MEASTR0010 Paint aircraft surfaces

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 MEA415 Paint aircraft surfaces.

Application

This unit describes the skills and knowledge required to perform final preparation of surfaces and apply paint finishes to fixed and rotary wing aircraft and aircraft components during the performance of scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

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

AURVTP003 Prepare vehicle spray painting equipment for use

AURVTP012 Apply air dry and polyurethane refinishing materials

MEA107 Interpret and use aviation maintenance industry manuals and specifications

MEA154 Apply work health and safety practices in aviation maintenance

MEA155 Plan and organise aviation maintenance work activities

MEA156 Apply quality standards during aviation maintenance activities

MEA157 Complete aviation maintenance industry documentation

MEA158 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

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. Prepare for painting	1.1 Identify painting task from maintenance documentation and enterprise procedures and identify type of substrate

	1.2 Identify and assemble required materials, tools and other items using enterprise procedures and maintenance publications 1.3 Match aircraft or component identification to maintenance documentation 1.4 Prepare surfaces for application of paint in accordance with enterprise procedures or process specification 1.5 Apply required masking and barrier materials in accordance with standard enterprise procedures
2. Apply primer	2.1 Identify and comply with work health and safety (WHS) requirements and check personal protective equipment (PPE) for correct fit and function 2.2 Comply with temperature and humidity requirements in accordance with product application procedures or documents 2.3 Apply specified primer in accordance with enterprise procedures or process specification 2.4 Identify and rectify substandard paintwork in accordance with enterprise procedures or process specification 2.5 Clean equipment in accordance with standard enterprise procedures
3. Apply surface topcoat	3.1 Identify and comply with WHS requirements and check PPE for correct fit and function 3.2 Comply with temperature and humidity requirements 3.3 Prepare specified topcoat material in accordance with manufacturer's instructions 3.4 Apply topcoat in accordance with enterprise procedures or process specifications 3.5 Identify and rectify substandard paintwork in accordance with enterprise procedures or process specifications 3.6 Remove mask and barrier materials and complete required final finishing of surface 3.7 Complete documentation in accordance with standard enterprise procedures
4. Clean up work area and maintain equipment	4.1 Remove and dispose of or store waste materials in accordance with legislative, regulatory and enterprise procedures 4.2 Clean equipment in accordance with enterprise procedures or manufacturer's instructions 4.3 Check equipment for serviceability and deal with unserviceable items in accordance with enterprise procedures 4.4 Clean and maintain tools in accordance with enterprise procedures

	4.5 Clean work area and inspect for serviceable condition in accordance with standard enterprise procedures
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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.
- Writing skills to complete documentation.
- Numeracy skills to interpret technical information.

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 MEA415 Paint aircraft surfaces.

Links

Companion Volume implementation guides are found in VETNet – -

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

Assessment Requirements for MEASTR0010 Paint aircraft surfaces

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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:

- paint aircraft surfaces during scheduled or unscheduled maintenance on at least two occasions, on at least two different substrates from the following:
 - high strength steel
 - aluminium alloys
 - composite fibre
 - plastic
 - transparencies
 - magnesium alloy
 - fabric
 - wood
- apply system testing procedures, cleanliness requirements and safety precautions at all times, and as relevant to the surfaces being worked on.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant legislative, regulatory and enterprise procedures, process specifications 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 aerospace coatings, including personal protective equipment (PPE) and fume extraction, 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
- how to obtain MSDSs
- manufacturer specifications and directions
- materials and tools required for painting aircraft surfaces, including:
 - epoxy primers
 - lacquer primers
 - acrylic topcoats
 - polyurethane topcoats
 - chemicals
 - masking and barrier materials
 - low pressure gun or touch-up gun
 - general purpose suction feed spray guns
 - airless spray units
 - electrostatic spray equipment
 - sanding and polishing equipment and materials
- types of paint finishes and applicability to various substrates
- procedures for preparing surfaces for paint application
- types of masking and barrier materials
- methods used for final finishing of surfaces
- 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 (DASA and 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 removing surface coatings from aircraft or aircraft components. 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 removing surface coatings from aircraft or aircraft components
- 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.

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