



Australian Government

MEASTR0006 Remove surface coatings from aircraft or aircraft components

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 MEA411 Remove surface coatings from aircraft or aircraft components.

Application

This unit describes the skills and knowledge required to prepare and mask aircraft and aircraft components for coating removal and to remove coatings using chemical and mechanical methods during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

Applications include fixed and rotary wing aircraft and aircraft components.

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

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. Identify the	1.1 Identify coating removal task from maintenance documentation and

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appropriate coating	enterprise procedures 1.2 Identify materials and tools to be used for coating removal from enterprise procedures and maintenance publications 1.3 Match aircraft or component with relevant maintenance documentation
2. Prepare for coating removal	2.1 Identify and comply with work health and safety (WHS) requirements, use material safety data sheets (MSDSs) and check personal protective equipment (PPE) for correct fit and function 2.2 Assemble required materials and tools for coating removal in accordance with maintenance manual 2.3 Prepare access to the aircraft in accordance with standard enterprise procedures 2.4 Determine masking requirements, including barrier materials, using enterprise procedures and maintenance publications 2.5 Apply required masking, including barrier materials, to relevant areas and sensitive components in accordance with requirements
3. Remove coating	3.1 Observe environmental requirements during the coating removal process in accordance with enterprise procedures 3.2 Apply chemical strippers in accordance with enterprise and chemical handling procedures 3.3 Remove coating using mechanical techniques in accordance with enterprise procedures and maintenance manuals 3.4 Clean surfaces of all chemical residue and mechanical media in accordance with enterprise procedures and maintenance manuals 3.5 Remove masking, including barrier materials, and clean surfaces in accordance with enterprise procedures
4. Clean up work area and maintain equipment	4.1 Collect and store materials that can be reused in accordance with enterprise procedures 4.2 Remove and dispose of or store waste materials in accordance with legislative, regulatory and enterprise procedures 4.3 Clean equipment in accordance with enterprise procedures or manufacturer's instructions while observing all relevant WHS requirements, including the use of MSDS and items of PPE 4.4 Check equipment for serviceability and deal with unserviceable

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	items in accordance with enterprise procedures 4.5 Clean and maintain tools in accordance with enterprise procedures 4.6 Clean work area and inspect for serviceable condition in accordance with enterprise procedures

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 coating removal procedures.
- 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 MEA411 Remove surface coatings from aircraft or aircraft components.

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 MEASTR0006 Remove surface coatings from aircraft or aircraft components

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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:

- removed surface coatings from aircraft or aircraft components during scheduled or unscheduled maintenance on at least two occasions and including the use of chemical strippers
- select and use appropriate mechanical coating removal methods for the aircraft or aircraft components being worked on
- apply system testing procedures, cleanliness requirements and safety precautions at all times, and as relevant to the aircraft or aircraft components being worked on.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant enterprise procedures and maintenance publications, including:
 - maintenance organisation manuals
 - procedures manuals
 - work instructions
 - standing instructions
- sources of legislative, regulatory and enterprise procedures for the removal of aerospace coatings, including fume extraction and the use of personal protective equipment (PPE), including:
 - Commonwealth, state and territory work health and safety (WHS) legislation, regulations and codes
 - procedures manuals
 - safety manuals
 - work instructions
 - maintenance organisation manuals
 - material safety data sheets (MSDSs)
 - standing instructions

- Commonwealth, state and territory environmental legislation, regulations and codes for the storage and disposal of hazardous and toxic materials
- how to obtain MSDSs
- types of chemicals used for coating removal and methods of application
- types of materials and tools required for removing surface coatings, including:
 - masking tapes and barrier materials
 - chemicals
 - abrasives
 - grinders
 - scrapers
 - paint stripper application pumps
 - blasting equipment
 - cleaning material
- mechanical methods that can be used for coating removal
- environmental requirements that may affect removing surface coatings, including:
 - noise
 - dust
 - fume extraction
 - clean-up management
- cleaning methods following coating removal
- 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 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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