



Australian Government

MEASTR0009 Remove light corrosion from 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 MEA414 Remove light corrosion from aircraft.

Application

This unit describes the skills and knowledge required to remove light corrosion from the surfaces of fixed and rotary wing aircraft structure.

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 corrosion damage	1.1 Identify signs of corrosion through visual inspection 1.2 Identify the type of corrosion to inform removal method selection 1.3 Determine severity of corrosion damage and document and report on damage more severe than light surface corrosion in accordance with standard enterprise procedures

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Remove light corrosion	2.1 Select required corrosion removal method in accordance with enterprise procedures 2.2 Identify and comply with work health and safety (WHS) requirements and check personal protective equipment (PPE) for correct fit and function 2.3 Assemble required materials and tools for corrosion removal in accordance with standard enterprise procedures 2.4 Prepare surface and remove corrosion using the selected removal method
3. Clean area and equipment	3.1 Clean surface of all chemical residue and mechanical media, in accordance with enterprise procedures, ready for the next process 3.2 Clean equipment in accordance with enterprise procedures or manufacturer's instructions 3.3 Check equipment for serviceability and deal with unserviceable items in accordance with enterprise procedures 3.4 Remove and dispose of or store waste materials in accordance with legislative, regulatory and enterprise procedures 3.5 Complete required documentation in accordance with standard 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 light corrosion removal procedures.
- 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 MEA414 Remove light corrosion from aircraft.

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 MEASTR0009 Remove light corrosion from aircraft

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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:

- remove light corrosion from aircraft during scheduled or unscheduled maintenance on at least two occasions and using one or more of the following removal methods
 - mechanical (using micro grinder, sander or plastic media blasting)
 - manual (using wet/dry abrasive papers or abrasive pads)
 - chemicals
- apply procedures, cleanliness requirements and safety precautions at all times, and as relevant to the aircraft structures and 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 and maintenance publications, including:
 - 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
- sources and application of work health and safety (WHS) procedures for removing of aerospace coatings, including personal protective equipment (PPE), including:
 - 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
- signs of corrosion, including:
 - surface deformed
 - paint blistered or flaked
 - powder
 - discolouration
- types of corrosion, including:
 - uniform etch
 - pitting
 - intergranular
 - exfoliation
 - filiform
 - galvanic
- types of chemicals used for corrosion removal and methods of application
- materials and tools suitable for corrosion removal, including:
 - micro grinders
 - sanders
 - plastic media blasting equipment
 - abrasive pads
 - wet/dry abrasive papers
 - chemicals
- mechanical methods that can be used for corrosion removal
- cleaning methods following corrosion removal
- environmental legislation and regulations for storing, using and disposing 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 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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