



**Australian Government**

# **MEA414 Remove light corrosion from aircraft**

**Release: 2**

# MEA414 Remove light corrosion from aircraft

## Modification History

Release 2. Equivalent to MEA414 Remove light corrosion from aircraft with amended prerequisite codes.

## Application

This unit of competency requires application of skills and knowledge relating to the removal of light corrosion from the surfaces of fixed and rotary wing aircraft structure.

No licensing requirements apply to this unit at the time of publication, but compliance with legislation and regulations for the handling and disposal of hazardous materials is included in the unit.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation Safety Authority (CASA).

## 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

## Unit Sector

## Elements and Performance Criteria

Elements describe the                      Performance criteria describe the performance needed to

essential outcomes.	demonstrate achievement of the element.
1. Identify corrosion damage	1.1 Signs of corrosion are identified through visual inspection 1.2 The type of corrosion is identified 1.3 The severity of corrosion damage is determined and damage more severe than light surface corrosion is documented and reported in accordance with standard enterprise procedures
2. Remove light corrosion	2.1 The applicable corrosion removal method is selected in accordance with enterprise procedures 2.2 Work health and safety (WHS) requirements are identified and complied with and personal protective equipment (PPE) is checked for correct fit and function 2.3 Materials and tools required for corrosion removal are assembled 2.4 Surface is prepared and corrosion removed using the selected removal method
3. Clean area and equipment	3.1 Surface is cleaned of all chemical residue and mechanical media, in accordance with enterprise procedures, ready for the next process 3.2 Equipment is cleaned in accordance with enterprise procedures or manufacturer's instructions 3.3 Equipment is checked for serviceability and unserviceable items are dealt with in accordance with enterprise procedures 3.4 Waste material is removed and disposed of or stored in accordance with legislative, regulatory and enterprise procedures 3.5 Documentation is completed in accordance with standard enterprise procedures

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

**Procedures and requirements include:**

- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

**Signs of corrosion include:**

- Surface deformed
- Paint blistered or flaked
- Powder
- Discolouration

**Types of corrosion include:**

- Uniform etch
- Pitting
- Intergranular
- Exfoliation
- Filiform
- Galvanic

**WHS requirements are identified from:**

- Commonwealth/state/territory WHS legislation, regulations and codes
- Procedures manuals
- Safety manuals
- Work instructions
- Maintenance organisation manuals
- Material safety data sheets (MSDS)
- Defence regulations and instructions
- Standing instructions

**Materials and tools include:**

- Micro grinder
- Sanders
- Plastic media blasting equipment
- Abrasive pads
- Wet/dry abrasive papers
- Chemicals
- PPE applicable to task

**Selected removal methods include:**

- Light mechanical using micro grinder, sander or plastic media blasting
- Manual removal using wet/dry abrasive papers or abrasive pads
- Chemical

**Legislative, regulatory and enterprise procedures**

- Commonwealth/state/territory environmental legislation, regulations and codes for the storage and disposal of hazardous and toxic materials

**include:**

- MSDS
- Maintenance organisation manuals
- Procedures manuals
- Work instructions
- Relevant Defence regulations and instructions
- Standing instructions

## Unit Mapping Information

Release 2. Equivalent to MEA414 Remove light corrosion from aircraft

## Links

Companion Volume implementation guides are found in VETNet -

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