



Australian Government

MEA411 Remove surface coatings from aircraft or aircraft components

Release: 2

MEA411 Remove surface coatings from aircraft or aircraft components

Modification History

Release 2. Equivalent to MEA411 Remove surface coatings from aircraft or aircraft components with amended prerequisite codes.

Application

This unit of competency requires application of skills and knowledge relating to preparation and masking of aircraft and aircraft components for coating removal and the removal of coatings using chemical and mechanical methods during scheduled or unscheduled maintenance working either individually or as part of a team.

No licensing requirements apply to this unit at the time of publication, but compliance with legislation and regulations governing handling and disposal of hazardous materials are 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).

Applications include fixed and rotary wing aircraft and aircraft components.

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 essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1. | Identify the appropriate coating removal method | 1.1 | The coating removal task is identified from maintenance documentation and enterprise procedures |
| | | 1.2 | Enterprise procedures and maintenance publications are used to identify materials and tools to be used for coating removal |
| | | 1.3 | Aircraft or component identification is matched with relevant maintenance documentation |
| 2. | Prepare for coating removal | 2.1 | Work health and safety (WHS) requirements are identified and complied with and personal protective equipment (PPE) is checked for correct fit and function |
| | | 2.2 | Materials and tools required for coating removal are assembled |
| | | 2.3 | Appropriate preparation for access to the aircraft is undertaken |
| | | 2.4 | Masking requirements are determined using enterprise procedures and maintenance publications |
| | | 2.5 | Masking is applied to relevant areas and sensitive components |
| | | 2.6 | Environmental requirements are observed during the coating removal process |
| 3. | Remove coating | 3.1 | Chemical strippers are applied in accordance with relevant procedures |
| | | 3.2 | Mechanical coating removal is performed in accordance with enterprise procedures and maintenance manuals |
| | | 3.3 | Surfaces are cleaned of all chemical residue and mechanical media in accordance with enterprise procedures and maintenance manuals |
| | | 3.4 | Masking materials are removed and final cleaning of surfaces is performed |

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| 4. | Clean up work area and maintain equipment | 4.1 | Material that can be reused is collected and correctly stored |
| | | 4.2 | Waste material is removed and disposed of or stored in accordance with legislative, regulatory and enterprise procedures |
| | | 4.3 | Equipment is cleaned in accordance with enterprise procedures or manufacturer's instructions |
| | | 4.4 | Equipment is checked for serviceability and unserviceable items are dealt with in accordance with enterprise procedures |
| | | 4.5 | Tools are cleaned and maintained in accordance with enterprise procedures |
| | | 4.6 | Work area is cleaned and inspected for serviceable condition |

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

WHS requirements are identified from relevant:

- 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:**
- Masking tapes and barrier materials
 - Chemicals
 - Abrasives
 - Grinders
 - Scrapers
 - Paint stripper application pumps
 - Blasting equipment
 - Cleaning material
- Environmental requirements relate to:**
- Noise
 - Dust
 - Fume extraction
 - Clean-up management
- Legislative, regulatory and enterprise procedures include:**
- Commonwealth/state/territory environmental legislation, regulations and codes for the storage and disposal of hazardous and toxic materials
 - MSDS
 - Maintenance organisation manuals
 - Procedures manuals
 - Work instructions
 - Relevant Defence regulations and instructions
 - Standing instructions

Unit Mapping Information

Release 2. Equivalent to MEA411 Remove surface coatings from aircraft or aircraft components

Links

Companion Volume implementation guides are found in VETNet -

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