



Australian Government

MEA413 Seal aircraft and aircraft component structural seams

Release: 2

MEA413 Seal aircraft and aircraft component structural seams

Modification History

Release 2. Equivalent to MEA413 Seal aircraft and aircraft component structural seams with amended prerequisite codes.

Application

This unit of competency requires application of skills and knowledge relating to the application of sealant to the surface seams of aircraft and aircraft components prior to surface coating application on 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.

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 essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to undertake seam sealing	1.1 The seam sealing task is identified from maintenance documentation and enterprise procedures 1.2 Applicable enterprise procedures, process specifications and maintenance publications are used to identify materials and tools to be used for seam sealing 1.3 Aircraft or component identification is matched with relevant maintenance documentation
2. Prepare seams for application of sealant	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 sealant application are assembled 2.3 Masking is applied in accordance with enterprise procedures and/or process specifications 2.4 Seams are prepared for sealant application in accordance with enterprise procedures and/or process specifications
3. Mix sealant	3.1 Environment is established in accordance with enterprise procedures and/or process specifications 3.2 The applicable sealant is mixed in accordance with manufacturer's specifications while observing all relevant WHS requirements, including the use of material safety data sheets (MSDS) and items of PPE
4. Apply sealant to seams	4.1 Sealant is applied in accordance with enterprise procedures and/or process specifications while observing all relevant WHS requirements, including the use of MSDS and items of PPE 4.2 The sealed seam is inspected and blemishes, voids or gaps are filled 4.3 Masking materials are removed

- 4.4 Waste and/or surplus materials are disposed of in accordance with legislative, regulatory and enterprise procedures
- 4.5 Documentation is completed in accordance with standard enterprise procedures
- 4.6 Aircraft or component, equipment and work area is left in a condition enabling the next task to begin

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:

- Commonwealth/state/territory WHS legislation, regulations and codes
- Procedures manuals
- Safety manuals
- Work instructions
- Maintenance organisation manuals
- MSDS
- Defence regulations and instructions
- Standing instructions

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 MEA413 Seal aircraft and aircraft component structural seams

Links

Companion Volume implementation guides are found in VETNet -

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