



**Australian Government**

# **MEA207 Remove and install aircraft electronic system components**

**Release: 1**

# **MEA207 Remove and install aircraft electronic system components**

## **Modification History**

Release 1 - New unit of competency

## **Application**

This unit of competency requires application of hand skills and the use of maintenance documentation/publications in the removal and installation of electronic system components and line replaceable units (LRUs) of fixed and rotary wing aircraft that are fitted with electronic systems, during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of the Avionic Certificate IV (Aircraft Maintenance Stream) training pathway.

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).

Where a CASA licensing outcome is sought this unit forms part of the CASA requirement for the granting of the chosen maintenance certification licence under Civil Aviation Safety Regulation (CASR) Part 66, in accordance with the licensing provisions in the Companion Volume Implementation Guide.

## **Pre-requisite Unit**

MEA201          Remove and install miscellaneous aircraft electrical hardware/components

## **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. Remove aircraft electronic system components  | 1.1 System is rendered safe and prepared in accordance with the applicable maintenance manual and isolation tags are fitted, where necessary, to ensure personnel safety                                   |
|  | 1.2 Electronic system component removal is carried out in accordance with the applicable maintenance manual while observing all relevant work health and safety (WHS) requirements                         |
|  | 1.3 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures  |
|  | 1.4 Removed components are tagged and packaged in accordance with specified procedures   |
| 2. Install aircraft electronic system components | 2.1 Electronic system components to be installed are checked to confirm correct part numbers, modification status, serviceability and shelf life   |
|  | 2.2 Physical installation of electronic components is performed in accordance with the applicable maintenance manual and regulatory requirements, ensuring appropriate adjustment/alignment is carried out |
|  | 2.3 System is reinstated to correct operational condition in preparation for testing, as necessary   |
|  | 2.4 Required maintenance documentation is completed and processed 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.

**Electronic system components include:**

- Panel and rack mounted electronic system components and LRUs of:
  - instrument navigation systems
  - communication systems
  - radio navigation systems
  - pulse operated systems
  - antennas
  - electronic instrument displays (where applicable to the enterprise)
  - automatic flight control systems (where applicable to the enterprise)
  - cabin entertainment equipment (where applicable to the enterprise)
  - on-board maintenance systems (where applicable to the enterprise)

**Procedures and requirements include:**

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

## Unit Mapping Information

Release 1 – equivalent to MEA207C Remove and install aircraft electronic system components

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>