



Australian Government

MEA343 Remove and install avionic system components

Release: 2

MEA343 Remove and install avionic system components

Modification History

Release 2. Equivalent to MEA343 Remove and install avionic system components with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and the use of maintenance documentation/publications in the removal, installation and task certification of avionic system components of fixed and rotary wing aircraft during the performance of scheduled or unscheduled maintenance where system serviceability can be established by a simple self-test facility, other on-board test systems/equipment or by simple ramp test equipment.

Maintenance may be performed individually or as part of a team.

The unit is part of the B1 maintenance certification licensing pathway under Civil Aviation Safety Regulation (CASR) Part 66, in accordance with the licensing provisions in the Companion Volume Implementation Guide.

Pre-requisite Unit

MEA227 Test and troubleshoot aircraft electrical systems and components

OR

MEA294 Inspect, test and troubleshoot advanced aircraft electrical systems and 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 avionic 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 |
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| | 1.2 | Avionic 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 avionic system components and verify system serviceability | 2.1 | Avionic components to be installed are checked to confirm correct part numbers, modification status, serviceability and shelf life |
| | 2.2 | Installation of avionic components is performed in accordance with the applicable maintenance manual and regulatory requirements while observing all relevant WHS requirements |
| | 2.3 | System is reinstated to correct operational condition and is tested for serviceability |
| | 2.4 | Required maintenance documentation is completed and processed in accordance with standard enterprise procedures and regulatory requirements |

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.

Avionic components include:

- Components/line replaceable units (LRUs) from electronic instrument systems
- Components/LRUs from engine indication systems

Tested for serviceability includes:

- Communication system components
- Navigation system components
- Software updates to avionic systems where serviceability can be determined by a simple test
- Confirming system serviceability through the operation of built-in test equipment or any other on-board system that can confirm correct operation
- Using only off-aircraft test equipment that provides a simple go/no go decision regarding system serviceability

Unit Mapping Information

Release 2. Equivalent to MEA343 Remove and install avionic system components

Links

Companion Volume implementation guides are found in VETNet -

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