



Australian Government

MEA305 Remove and install aircraft fixed wing flight control system components

Release: 2

MEA305 Remove and install aircraft fixed wing flight control system components

Modification History

Release 2. Equivalent to MEA305 Remove and install aircraft fixed wing flight control system components with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and the use of maintenance publications to remove and install aircraft flight control system components of fixed wing aircraft during scheduled and unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of the Mechanical Certificate IV (Aircraft Maintenance Stream) training pathway. It may also be part of a Structures Maintenance Certificate IV 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

MEA398	Remove and install aircraft hydro-mechanical and landing gear system components
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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 fixed wing flight control system | 1.1 System is rendered safe in accordance with the applicable maintenance manual and isolation tags are |
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components		fitted, where necessary, to ensure personnel safety
	1.2	Fixed wing flight control 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 accurately completed and correctly processed
	1.4	Removed components are tagged, sealed and packaged in accordance with specified procedures
2. Install fixed wing flight control system components	2.1	Components to be installed are checked to confirm correct part numbers, serviceability and modification status
	2.2	Mass balance of control surfaces to be installed is checked in accordance with the applicable maintenance manual, if required
	2.3	Installation is carried out in accordance with the applicable maintenance manual while observing all relevant WHS requirements
	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.

Flight control system components include:

- Ailerons, elevators, rudders, trim tabs, speed brakes, spoilers, flaps and slats
- Actuators – mechanical, hydraulic, pneumatic or electric
- Mechanical flight control components (cables, pulleys, guides, fairleads, tension regulators, control rods,

- bellcranks, torque tubes, chains, sprockets, control sticks, wheels or columns, trim wheels or handles, rudder pedals)
- Procedures and requirements include:**
- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2. Equivalent to MEA305 Remove and install aircraft fixed wing flight control system components

Links

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