



Australian Government

MEA308 Remove and install rotary wing rotor and flight control system components

Release: 2

MEA308 Remove and install rotary wing rotor and flight control system components

Modification History

Release 2. Equivalent to MEA308 Remove and install rotary wing rotor and 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 rotary wing aircraft rotors and associated flight control system components during the performance of scheduled or unscheduled maintenance. Maintenance may be performed individually or as part of a team.

The unit is part of the Mechanical 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

MEA398 Remove and install aircraft hydro-mechanical and landing gear system 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 rotary wing rotor | 1.1 System is rendered safe and prepared in accordance with relevant aircraft publications/maintenance |
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- regulations/orders and standards and practices
- 1.2 Isolation and warning signs are installed/fitted to ensure personnel safety
 - 1.3 Rotary wing rotor removal is carried out in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices while observing all relevant work health and safety (WHS) requirements
 - 1.4 Required aircraft maintenance documentation is completed and processed in accordance with standard enterprise procedures
 - 1.5 Removed components are labelled, sealed and packaged in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices
2. Remove rotary wing flight control system components
- 2.1 System is rendered safe and prepared in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices
 - 2.2 Isolation and warning signs are installed/fitted to ensure personnel safety
 - 2.3 Rotary wing flight control system component removal is carried out in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices while observing all relevant WHS requirements
 - 2.4 Required aircraft maintenance documentation is completed and processed in accordance with standard enterprise procedures
 - 2.5 Removed components are labelled, sealed and packaged in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practice
3. Install rotary wing rotor
- 3.1 Rotor to be installed is checked to confirm correct part or model numbers, modification status and serviceability
 - 3.2 Mass balance of rotor blades/head is checked in accordance with relevant aircraft publications/maintenance regulations/orders and

- standards and practices
- 3.3 Installation is carried out in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices while observing all relevant WHS requirements
- 3.4 Support/safety equipment is removed at the appropriate time to ensure personnel safety and freedom from structural damage
4. Install rotary wing flight control system components
- 4.1 Rotary wing flight control system components to be installed are checked to confirm correct part or model numbers, modification status and serviceability
- 4.2 Installation is carried out in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices while observing all relevant WHS requirements
- 4.3 Support/safety equipment is removed at the appropriate time to ensure personnel safety and freedom from structural damage
- 4.4 Required aircraft 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.

Rotary wing rotors and flight control system components include:

- Main rotor blades and tail rotor blades
- Rotor heads
- Swash plates, and tail rotor pitch control assemblies
- Mechanical flight control components (i.e. cables, pulleys, guides, fairleads, tension regulators, control rods, bellcranks, torque tubes, control sticks or columns,

- tail rotor pedals) and mechanical components of powered flight control systems
- Main rotor, intermediate or tail rotor gearboxes
 - Drive shafts and couplings
 - In the case of hydraulically powered rotor control system components and related plumbing, maintenance work should be assessed against MEA398 Remove and install aircraft hydro-mechanical and landing gear system components
 - Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise
- Powered flight controls**
- Procedures and requirements include:**

Unit Mapping Information

Release 2. Equivalent to MEA308 Remove and install rotary wing rotor and 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>