



Australian Government

MEA307 Remove and install propeller systems and components

Release: 2

MEA307 Remove and install propeller systems and components

Modification History

Release 2. Equivalent to MEA307 Remove and install propeller systems and 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 fixed wing aircraft propellers and propeller system components 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.

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

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.

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|--------------------------------------|---|
| 1. Remove propellers and components | 1.1 System is rendered safe and prepared in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices |
| | 1.2 Isolation and warning signs are installed/fitted to ensure personnel safety and freedom from damage during component removal |
| | 1.3 Propeller system component 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, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE) |
| | 1.4 Required aircraft maintenance documentation is accurately completed and correctly processed |
| | 1.5 Removed components are labelled, sealed and packaged in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices |
| 2. Install propellers and components | 2.1 Propeller system components to be installed are checked to confirm correct part numbers, serviceability and modification status |
| | 2.2 Component installation is carried out in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices while observing all relevant WHS requirements, including the use of MSDS and items of PPE |
| | 2.3 Support/safety equipment is removed at an appropriate time to ensure personnel safety and freedom from structural damage |
| | 2.4 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.

Propeller system components include:

- Propellers, including spinners, where fitted
- Constant speed, feathering and reversing propeller drives
- Beta control systems and governors
- Controls and linkages
- De-ice/anti-ice equipment (where applicable to the enterprise)

Procedures and requirements include:

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

Unit Mapping Information

Release 2. Equivalent to MEA307 Remove and install propeller systems and components

Links

Companion Volume implementation guides are found in VETNet -

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