



Australian Government

**MEA304 Remove and install
non-pressurised aircraft structural and
non-structural components**

Release: 2

MEA304 Remove and install non-pressurised aircraft structural and non-structural components

Modification History

Release 2. Equivalent to MEA304 Remove and install non-pressurised aircraft structural and non-structural components with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and maintenance publications to remove and install structural and non-structural components from non-pressurised fixed and rotary 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

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 components | 1.1 Structure is supported and prepared in accordance with the applicable maintenance manual to ensure personnel safety and freedom from damage to aircraft |
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- or component during component removal
- 1.2 Component removal is carried out in accordance with the applicable maintenance manual 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)
 - 1.3 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures
 - 1.4 Where applicable, removed components are tagged and prepared for transport in accordance with specified procedures
2. Install components
- 2.1 Structural and/or non-structural 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 the applicable maintenance manual 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 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.

Removable components of structure include:

- Those that are installed using bolts and/or screws. Where component removal and installation requires the removal and installation of rivets the applicable unit is either MEA339 Inspect, repair and maintain aircraft structures, MEA369 Inspect and maintain structures and related components of non-pressurised small aircraft or MEA371 Perform major repairs and modifications to small aircraft metal structure.
- Removable components include:
 - removable components of wings, tail booms, pylons, empennage, skids, fairings and nacelles
 - removable components or sections of non-pressurised fuselages
 - non-pressurised fuselage entry, cargo, access doors and associated seals, including checking and adjustment of all doors and access panels and associated locking mechanisms
 - non-pressurised fuselage windows and transparent panels
 - where applicable, trim panels, linings, seats, cabin equipment and consoles, floor panels and coverings
 - applicable emergency equipment, including passenger escape systems, life jackets, rafts, location transmitters, beacons, crew and passenger seat restraints

Sealant removal and application includes:

- The removal and application of faying (contact or overlapping) surface and fuel tank sealants is included, where applicable

Procedures and requirements include:

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

Unit Mapping Information

Release 2. Equivalent to MEA304 Remove and install non-pressurised aircraft structural and non-structural components

Links

Companion Volume implementation guides are found in VETNet -

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