



Australian Government

MEA344 Remove and install aircraft components

Release: 1

MEA344 Remove and install aircraft components

Modification History

Release 1 - New unit of competency

Application

This unit of competency requires application of hand skills and standard trade practices in the removal and installation of fixed and rotary wing aircraft components during scheduled or unscheduled maintenance, including hydro-mechanical and mechanical components, and emergency equipment that is within the privileges of the A Licence.

This is one of the units required for the granting of the chosen maintenance certification A Licence under Civil Aviation Safety Regulation (CASR) Part 66, in accordance with the licensing provisions in the Companion Volume Implementation Guide.

Pre-requisite Unit

MEA101	Interpret work health and safety practices in aviation maintenance
MEA103	Plan and organise aviation maintenance work activity
MEA105	Apply quality standards applicable to aviation maintenance processes
MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA108	Complete aviation maintenance industry documentation
MEA109	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.

- | | |
|---------------------------------------|--|
| 1. Remove landing gear components | 1.1 The aircraft is jacked as specified in the maintenance manual for landing gear component removal |
| | 1.2 Removal of components is carried out in accordance with the applicable maintenance publications 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 accurately completed and correctly processed |
| | 1.4 Removed components are tagged, sealed and packaged in accordance with standard organisational procedures |
| 2. Remove hydro-mechanical components | 2.1 Hydro-mechanical system is rendered safe and prepared in accordance with the applicable maintenance publication, including fitment of isolation tags, where necessary, to ensure personal safety |
| | 2.2 Removal of hydro-mechanical components is carried out in accordance with the applicable maintenance publications while observing all relevant WHS requirements, including the use of MSDS and items of PPE |
| | 2.3 Required maintenance documentation is accurately completed and correctly processed |
| | 2.4 Removed components are tagged, sealed and packaged in accordance with standard organisational procedures |

- | | | |
|--|-----|--|
| 3. Remove mechanical components/emergency equipment | 3.1 | Applicable safety precautions are identified and observed for the removal and handling of components |
| | 3.2 | Removal of mechanical components/emergency equipment is carried out in accordance with the applicable maintenance publications while observing all relevant WHS requirements, including the use of MSDS and items of PPE |
| | 3.3 | Required maintenance documentation is accurately completed and correctly processed |
| | 3.4 | Removed components and/or items of emergency equipment are tagged, sealed and packaged in accordance with standard organisational procedures |
| 4. Install landing gear components | 4.1 | Components to be installed are checked to confirm correct part numbers, serviceability and modification status |
| | 4.2 | Component installation is carried out in accordance with applicable maintenance publications while observing all relevant WHS requirements, including the use of MSDS and items of PPE |
| | 4.3 | Required maintenance documentation is completed and processed in accordance with standard enterprise procedures |
| 5. Install hydro-mechanical components | 5.1 | Components to be installed are checked to confirm correct part numbers, serviceability and modification status |
| | 5.2 | Component installation is carried out in accordance with applicable maintenance publications while observing all relevant WHS requirements, including the use of MSDS and items of PPE |
| | 5.3 | Required maintenance documentation is completed and processed in accordance with standard enterprise procedures |
| 6. Install mechanical components/emergency equipment | 6.1 | Components to be installed are checked to confirm correct part numbers, serviceability and modification status |
| | 6.2 | Component installation is carried out in accordance with applicable maintenance publications while |

observing all relevant WHS requirements, including the use of MSDS and items of PPE

- 6.3 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.

- | | |
|--|---|
| Landing gear components include: | <ul style="list-style-type: none">• Main and nose wheel assemblies• Brake units |
| Hydro-mechanical components include: | <ul style="list-style-type: none">• Toilet system components (excluding gate valves)• Windscreen wiper blades |
| Mechanical components/emergency equipment includes: | <ul style="list-style-type: none">• Passenger and crew seats, seat belts and harnesses• Internal doors (excluding any doors that form part of the pressure hull)• Trim panels, linings, cabin equipment and consoles• Applicable emergency equipment, such as life jackets, rafts, location transmitters/beacons |
| Procedures and requirements include: | <ul style="list-style-type: none">• Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise |

Unit Mapping Information

Release 1 – equivalent to MEA344A Remove and install aircraft components

Links

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