



**Australian Government**

# **MEA328 Maintain and/or repair aircraft mechanical components or parts**

**Release: 2**

# MEA328 Maintain and/or repair aircraft mechanical components or parts

## Modification History

Release 2. Equivalent to MEA328 Maintain and/or repair aircraft mechanical components or parts with amended prerequisite codes.

## Application

This unit of competency requires application of hand skills and the use of relevant maintenance publications to maintain and repair a range of aircraft mechanical components during the performance of scheduled or unscheduled maintenance. Maintenance may be performed individually or as part of a team.

Applications include fixed and rotary wing aircraft, and components in workshops.

This 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

MEA303	Remove and install aircraft pneumatic system components
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.

1. Maintain and/or repair mechanical components or parts
  - 1.1 Maintenance and/or repair requirements are determined, following disassembly and assessment of component parts for serviceability, in accordance with the relevant maintenance documentation
  - 1.2 Tagging and repair instructions are accurately specified for parts requiring specialist repair
  - 1.3 Appropriate materials, tools, equipment and assembly or fabrication jigs are selected and prepared for the particular specification requirements
  - 1.4 Components or parts are maintained, repaired or modified, as approved by relevant manufacturers' bulletins or procedures, in accordance with required specifications 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)
  - 1.5 Mechanical component parts are assembled within specified tolerances and in accordance with the appropriate maintenance documents
  - 1.6 Mechanical components are adjusted, as required, to operate within prescribed specifications
  - 1.7 Test equipment and rigs are used, where applicable, to confirm serviceability
  - 1.8 Maintained/repaired or modified components are tagged, sealed and packaged within specified procedures
  - 1.9 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.

**Components or parts to be maintained and/or repaired include:**

- Hoses
- Pipes
- Cables, pulleys, chains, sprockets and gear drives
- Control rods, bellcranks and links
- Non-structural removable components of fuselages, fairings, nacelles, empennage, wings and thrust reversers. for non-pressurised aircraft – entry, cargo, access doors and associated seals, windows and transparent panels
- Trim panels, linings, seats, cabin equipment and consoles, floor panels, coverings and emergency equipment (including passenger escape systems, inflatable slides, life jackets, rafts, location transmitters, beacons, and cargo, crew and/or passenger seat restraints)

**Repair includes:**

- Standard techniques for pipes and replacement of eye-ends, tubes or bearings for control rods/pulleys/sprockets and bushes or bearings for bellcranks and links

**Maintain involves:**

- Cleaning, inspection for wear or damage, and adjustment and lubrication, where applicable

**Procedures and requirements include:**

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

## Unit Mapping Information

Release 2. Equivalent to MEA328 Maintain and/or repair aircraft mechanical components or parts.

## Links

Companion Volume implementation guides are found in VETNet -

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