



Australian Government

**Assessment Requirements for MEA328
Maintain and/or repair aircraft mechanical
components or parts**

Release: 2

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Modification History

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

Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- applying relevant WHS practices, including the use of MSDS and PPE
- using relevant maintenance documentation, specifications and aircraft/component manuals to:
 - recognise state of serviceability and repair requirements for the range of mechanical components listed in the Range of Conditions
 - identify requirements and complete repairs and/or modifications
 - test and/or adjust components, as required.
- correctly tag, seal and package completed components

The underlying skills inherent in this unit should be transferable across a range of maintenance and repair applications associated with aircraft components. It is essential that the relevant procedures are interpreted and applied to ensure quality and safety standards are achieved.

This shall be demonstrated through application across a number of different aircraft components as listed in the Assessment Conditions.

Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- construction, repair procedures and processes for:
 - cables
 - pulleys
 - chains
 - sprockets
 - gear drives
 - control rods
 - bellcranks
 - linkages

- non-structural removable components of fuselages, fairings, nacelles, empennage and wings
- engine thrust reversers
- from unpressurised aircraft:
 - entry, cargo and access doors
 - windows
 - transparent panels
- construction and serviceability criteria for hoses and pipes, including pressure test requirements
- construction, materials, cleaning and repair requirements for:
 - trim panels
 - cabin linings
 - seats
 - cabin equipment and consoles
 - floor panels
 - coverings
 - emergency equipment and stowages
 - cargo, crew and/or passenger seat restraints
- relevant WHS practices
- how to obtain MSDS
- use of PPE
- relevant maintenance manuals, standards and specifications
- relevant regulatory requirements and standard procedures.

Assessment Conditions

- Competency should be assessed in the work environment or simulated work environment using tools and equipment specified in maintenance documentation. It is also expected that applicable general and special-purpose tools and test equipment found in most routine situations would be used where appropriate.
- Ability to assess component serviceability and interpret parts requirements will be necessary before undertaking any action. The work plan should take account of applicable safety and quality requirements in accordance with the industry and regulatory standards.
- The following conditions of assessment represent the requirements of the Regulators (ADF and CASA) and maintenance stakeholders and must be rigorously observed.
- A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the unit of competency are being achieved under routine supervision on a representative range of components or parts from each of the following groups:
 - 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).
- This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).
- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).
- Where the unit is to be used for CASA licensing purposes the Assessor must also meet the criteria specified in the CASR Part 147 Manual of Standards.
- Individuals being assessed who have already attained MEA327 Fabricate and/or repair aircraft mechanical components or parts will have partially met the performance criteria for Element 1 for some of the listed variables. The Log of Industrial Experience and Achievement records relating to MEA327 Fabricate and/or repair aircraft mechanical components or parts may be accepted as also meeting the evidence requirements for the performance criteria for this Element in respect to common variables.

Links

Companion Volume implementation guides are found in VETNet -

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