



Australian Government

**Assessment Requirements for MEA333
Maintain aircraft piston engine components
or parts**

Release: 2

Assessment Requirements for MEA333 Maintain aircraft piston engine components or parts

Modification History

Release 2. Equivalent to MEA333 Maintain aircraft piston engine 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 standard/routine maintenance and repair requirements for the range of engine components listed in the Range of Conditions
 - identify requirements under the guidance of a qualified person and complete repairs and/or modifications
- correctly tagging, sealing and packaging completed components.

The underlying skills inherent in this unit should be transferable across a range of maintenance and repair applications associated with engine components. It is essential that the relevant standard enterprise 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:

- component operation at a basic level
- standard/routine repair procedures and processes
- relevant WHS practices
- how to obtain MSDS
- use of PPE.

For the purpose of this unit, basic knowledge is defined as the level of knowledge required to:

- remove, install and maintain components such as hoses, pipes and ducts etc
- dismantle and maintain engine assemblies and sub-assemblies

- apply unit MEA158 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance, skills to repair or modify components of sub-assemblies and systems listed in the Range of Conditions.

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 found in most routine situations would be used where appropriate.
- Ability to assess component serviceability under qualified person guidance 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 qualified person guidance on a representative range of components or parts, as follows:
 - cooling systems
 - engine cylinder assemblies
 - engine crankcase assemblies
 - accessory drives
 - lubrication systems.
- 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).

Links

Companion Volume implementation guides are found in VETNet -

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