



Australian Government

**Assessment Requirements for
MEAMEC0073 Repair and overhaul
aircraft piston engine crankcase assembly
components**

Assessment Requirements for MEAMEC0073 Repair and overhaul aircraft piston engine crankcase assembly components

Modification History

Release 1. Application changed. Performance Criteria changed. Foundation Skills made explicit. Assessment Requirements clarified. Supersedes and is equivalent to MEA394 Repair and/or overhaul aircraft piston engine crankcase assembly components.

Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to use relevant maintenance documentation, specifications and aircraft or component manuals to recognise state of serviceability and overhaul or repair requirements for the following piston engine crankcase assembly components:

- crankshaft, gears, con rods and counterweights
- camshaft, hydraulic tappets or cam followers and gears
- propeller shaft, reduction drive gear and quill shaft
- component gear drives or trains
- crankcase castings, bearings, component mounting pads and studs
- oil system components
- supercharger and turbocharger components (may be omitted where not applicable to the enterprise)
- propeller governor (may be omitted where not applicable to the enterprise).
-

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- how to obtain relevant material safety data sheets (MSDSs)
- the use of applicable items of personal protective equipment (PPE) for repairing or overhauling aircraft piston engine crankcase assembly components
- aircraft piston engine crankcase assembly component inspection and wear measurement procedures
- non-destructive testing (NDT) methods and application
- aircraft piston engine crankcase assembly component repair and overhaul procedures and processes, including work health and safety (WHS).
-

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in repairing and overhauling aircraft piston engine crankcase assembly components. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - tools and equipment specified in maintenance documentation.
 - general-purpose tools and test equipment found in most routine situations.
 - maintenance documentation

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet – -

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