



Australian Government

MEAMEC0030 Maintain aircraft piston engine components or component parts

Release: 1

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Modification History

Release 1. Application changed. Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA333 Maintain aircraft piston engine components or parts.

Application

This unit describes the skills and knowledge required to apply hand skills and use maintenance documentation to dismantle, inspect, maintain and assemble aircraft piston engine components or parts during scheduled or unscheduled maintenance under the guidance of a qualified person. Work under the guidance of a qualified person may be performed individually or as part of a team.

This unit applies to piston engine components or parts in a workshop.

Note that the scope of any repair or modification and the procedure to be followed will be provided by the qualified person, and will be within the scope of the unit of competency MEA158 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

MEA107 Interpret and use aviation maintenance industry manuals and specifications

MEA154 Apply work health and safety practices in aviation maintenance

MEA155 Plan and organise aviation maintenance work activities

MEA156 Apply quality standards during aviation maintenance activities

MEA157 Complete aviation maintenance industry documentation

MEA158 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

Competency Field

Aviation maintenance

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to dismantle inspect, maintain and assemble piston engine components or component parts	1.1 Confirm maintenance or repair requirements as defined by the qualified person, standard enterprise procedures and the relevant maintenance documentation 1.2 Specify tagging and repair instructions in accordance with standard enterprise procedures and as directed by a qualified person for parts requiring specialist repair 1.3 Select and prepare applicable materials, tools, equipment and assembly or fabrication jigs for the maintenance and repair requirements in accordance with standard enterprise procedures and relevant maintenance documentation
2. Dismantle, inspect, maintain and assemble aircraft piston engine components or component parts	2.1 Remove and/or disassemble components or component parts in accordance with standard enterprise procedures, relevant maintenance documentation and qualified person guidance while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 2.2 Carry out routine maintenance, repair or modification procedures, as approved by relevant manufacturers' bulletins or procedures, and in accordance with required standard enterprise procedures and specifications while observing all relevant WHS requirements, including the use of MSDSs and items of PPE 2.3 Assemble component parts within specified tolerances and in accordance with standard enterprise procedures and the appropriate maintenance documents 2.4 Where applicable, and as required by the qualified person, provide assistance in the final adjustment and testing of components to confirm serviceability
3. Complete maintenance, repair or modification activities	3.1 Complete required documentation and process in accordance with standard enterprise procedures 3.2 Tag, seal and pack maintained or repaired or modified components within specified procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret maintenance documentation, procedures and manufacturer's instructions.
- Writing skills to complete maintenance documentation.
- Numeracy skills to interpret and communicate data and technical information.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA333 Maintain aircraft piston engine 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>