



Australian Government

Assessment Requirements for MEAMEC0075 Assemble aircraft piston engine quick engine change unit

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 MEA396 Assemble aircraft piston engine quick engine change unit.

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 assemble an aircraft piston engine quick engine change (QEC) unit on at least one of the engine types maintained by the enterprise, which will comprise any of the following components:

- engine
- engine mount frame
- external lubrication system components
- baffles
- heat shields
- fuel system plumbing
- pneumatic plumbing
- control linkages
- induction system
- exhaust system components
- turbocharger and waste gate
- tachometer generator and wiring
- vacuum pump
- air pump
- hydraulic pump
- fire warning system.
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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 piston engine QEC work
- enterprise procedures relating to piston engine, including work health and safety (WHS) and quality
- piston engine fault diagnosis techniques

- piston engine system and component operation
- QEC assembly and component adjustment requirements.
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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 assembling aircraft piston engine QEC units. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to assembling aircraft piston engine QEC units
 - tools and equipment specified in maintenance documentation
 - general-purpose tools and test equipment found in most routine situations.

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>