

Name of Assessed Person:

Registration:

UNIT MEAMEC0076: Test Aircraft Piston Engines after Repair or Overhaul

1. Prepare piston engine for test run.	a. Complex adjusting and testing of engine performance carried out under supervision	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 1.1 Check documentation to ensure that engine is ready for testing.
- 1.2 Install engine in test rig or test cell, including connection of fuel, oil and electrical supplies and instrumentation while observing relevant work health and safety (WHS) procedures, including the use of material safety data sheets (MSDSs) and personal protective equipment (PPE).
- 1.3 Fill sump or external oil tank with correct grade and type of lubricating oil.
- 1.4 Fill test rig or cell fuel tank with correct type and grade of fuel.
- 1.5 Fit correct propeller or club to the engine.
- 1.6 Prepare test rig or cell for operation.

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2. Run and test piston engine performance	a. Complex adjusting and testing of engine performance carried out under supervision	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 2.1 Start engine and check operating parameters in accordance with maintenance manual and standard enterprise procedures while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 2.2 Perform requires tests and adjustments to engine performance, in accordance with maintenance manual requirements and standard enterprise procedures, and seek required supervisory guidance for complex testing and adjustments.
- 2.3 Record engine operating parameters and test results in accordance with standard enterprise procedures.

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3. Troubleshoot piston engine faults.	a. Complex adjusting and testing of engine performance carried out under supervision	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 3.1 Use available information from maintenance records and test results, when required, to assist in fault determination.
- 3.2 Use logical processes to ensure efficient and accurate troubleshooting.
- 3.3 Obtain specialist advice, when required, to assist with, or confirm, the fault and rectification requirement.
- 3.4 Locate piston engine component faults and the causes of the faults are clearly identified.
- 3.5 Determine fault rectification requirements to assist in determining if the engine must be returned to the workshop.

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4. Remove engine from test rig/cell.	a. Complex adjusting and testing of engine performance carried out under supervision	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 4.1 Remove engine from test rig or stand in accordance with maintenance manual requirements and standard enterprise procedures while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 4.2 Configure, inhibit and prepare serviceable engines in accordance with maintenance manual requirements and standard enterprise procedures for transport or storage.
- 4.3 Complete required maintenance documentation and modification records and process in accordance with standard enterprise procedures.
- 4.4 Return unserviceable engines to workshop in accordance with standard enterprise procedures for rectification or re-work.

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Certification of Underpinning Knowledge and Skills to Test Aircraft Piston Engines after Repair or Overhaul

A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements of this unit of competency are being achieved under routine supervision on each type of system and on at least one (1) item of each group listed in the assessment conditions a). 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 Implementation Guide).

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Evidence has been confirmed of the attainment of the following pre-requisite units of competency (as they are related to attainment of the elements of competency specified in this unit).	
MEC0071, MEC0072, MEC0073, MEC0074, MEC0075	
Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organisation.	
OR	
Assessment has been conducted to determine that the underpinning knowledge and skills have been achieved in accordance with the Competency Unit.	

Certification of Unit Completion

I certify that I have reviewed the certification of the elements for this competency unit and that all of the competency unit requirements have been met.

Signed: _____ **Assessor No.** _____ **MTO:** _____ **Date:** _____

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