

Registration:

UNIT MEA313: Inspect, Test	and 1	Froubleshoot Piston Engine Systems and Components							
			No. of Entries	1	L	2	<u>)</u>	(1)	3
			Tail / Job No.						
	a.	Engine (all types), Main Components and Accessories/Drives	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1	_	12	<u>)</u>	(1)	5
1.			Tail / Job No.						
Inspect Piston Engine System	b.	Control System	LAME Sign.						
and Components			Date						
		Simulated	Yes	No	Yes	No	Yes	No	
			No. of Entries	1	_	12	2	(1)	3
			Tail / Job No.						
	с.	Ignition and Starter Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
Performance Criteria:									

1.1 Isolation tags already attached to the system or related systems are checked and aircraft/engine configured for safe system inspection and operation in accordance with applicable maintenance manual.

1.2 **Piston Engine** and/ or components are visually or physically checked for signs of defects in accordance with applicable maintenance manual while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE).

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Registration:

			No. of Entries	1	-	2	2	3	3
			Tail / Job No.						
	d.	Fuel, Air Systems and Super/Turbo Chargers	LAME Sign.						
1. Cont'd Inspect Piston Engine System and Components			Date						
			Simulated	Yes	No	Yes	No	Yes	Ν
			No. of Entries	1	-	2	2		3
			Tail / Job No.						
	e.	e. Oil System LAM	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	Ν

1.1 Isolation tags already attached to the system or related systems are checked and aircraft/engine configured for safe system inspection and operation in accordance with applicable maintenance manual.

1.2 **Piston Engine** and/ or components are visually or physically checked for signs of defects in accordance with applicable maintenance manual while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE).



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			No. of Entries	1	<u> </u>	2		3	}
			Tail / Job No.						
	a.	Date	LAME Sign.						
			Simulated	Yes	No	Yes	No	Yes	No
	No	No. of Entries	1	_	2		3	3	
2			Tail / Job No.						
2. Test Piston Engine System	b.	Control System LAME Sign.	LAME Sign.						
Test Piston Engine System			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1	_	2		3	3
	с.		Tail / Job No.						
		Ignition and Starter Systems	LAME Sign.	-					
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

- 2.1 Aircraft and *Engine System* are correctly prepared in accordance with applicable maintenance manual and connected to appropriate test equipment.
- 2.2 Built-in system test functions and status displays are activated, where applicable, outputs recorded and interpreted.
- 2.3 Assistance is provided with engine and/or system operation during prescribed test procedures to establish serviceability and correct function in accordance with applicable maintenance manual.

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			No. of Entries	1	-	2	2	(1)	5
			Tail / Job No.						
	d.	Fuel, Air Systems and Super/Turbo Chargers	LAME Sign.						
			Date						
2. Cont'd Test Piston Engine System			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1	-	2	2	(1)	\$
		Tail / Job No.							
	e.	Oil System	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
Performance Criteria:	•			•		•			

2.1 Aircraft and *Engine System* are correctly prepared in accordance with applicable maintenance manual and connected to appropriate test equipment.

2.2 Built-in system test functions and status displays are activated, where applicable, outputs recorded and interpreted.

2.3 Assistance is provided with engine and/or system operation during prescribed test procedures to establish serviceability and correct function in accordance with applicable maintenance manual.



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			No. of Entries	-	1	2	<u>)</u>		3
			Tail / Job No.						
	a.	a. Engine (all types), Main Components and Accessories/Drives	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries		1	2	2		3
2			Tail / Job No.						
3. Prepare for Troubleshooting	b.	Control System	LAME Sign. Date						
		Simulated	Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries		1	2	2	(1) (1)	3
			Tail / Job No.						
	c. Igr	Ignition and Starter Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

3.1 Relevant maintenance documentation and modification status, including system defect reports where relevant are used to identify unserviceability.

**** Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

Aviation	Trade Unit Certification Sheets	AA TT PRO 01a

	d. Fuel, Air Systems and Super/Turbo Chargers d. Fuel, Air Systems and Super/Turbo Chargers LAN Date Simulation publeshooting No.	No. of Entries	1		2	2	3	}	
		Tail / J	Tail / Job No.						
		LAME Sign.							
		Date							
3. Cont'd		Simulated	Yes	No	Yes	No	Yes	No	
Prepare for Troubleshooting		No. of Entries	1		2	2	3	\$	
		Tail / Job No.							
	e. Oil System	Dil System LAME S	LAME Sign.						
		Date							
			Simulated	Yes	No	Yes	No	Yes	No
Performance Criteria:			÷	•					
3.1 Relevant maintenance do	umentation and modificati	ion status, including system defect reports v	where relevant are used	to iden	tifv u	nservi	ceabi	lity.	

**** Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

Name of Assessed Person:



Registration:

UNIT MEA313: Inspect, Test	: and T	roubleshoot Piston Engine Systems and Components							
			No. of Entries	1		2		3	3
			Tail / Job No.						
	a.	Engine (all types), Main Components and Accessories/Drives	LAME Sign.						
		Da	Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1		2		3	3
4.			Tail / Job No.						
Troubleshoot Piston Engine	b.	Date	LAME Sign.						
System			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1		2		3	3
			Tail / Job No.						
	c.	Ignition and Starter Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

- 4.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 4.2 Maintenance manual fault diagnosis guide and logical processes are used to ensure efficient and accurate *troubleshooting* to line replacement level.
- 4.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 4.4 Piston engine system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
- 4.5 Fault rectification requirements are determined to assist in planning the repair.

**** Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

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Registration:

			No. of Entries	1		2	2		3
			Tail / Job No.						
	d.	Fuel, Air Systems and Super/Turbo Chargers	LAME Sign.						
4. Cont'd Troubleshoot Piston Engine System e			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1		2	2		3
			Tail / Job No.						
	e.	Oil System	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

- 4.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 4.2 Maintenance manual fault diagnosis guide and logical processes are used to ensure efficient and accurate *troubleshooting* to line replacement level.
- 4.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 4.4 Piston engine system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
- 4.5 Fault rectification requirements are determined to assist in planning the repair.

**** Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

	Aviation	Trade Unit Certification Sheets	AA TT PRO 01a		
Name of Assessed Person:		Registration	Registration:		

Registration:

Certification of Underpinning Knowledge and Skills to Inspect, Test and Troubleshoot Piston Engine Systems and Components

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

UNIT MEA313: Inspect, Test and Troubleshoot Piston Engine Systems and Components	Date/ MTO Stamp
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).	
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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 at the time of this assessment I have reviewed the candidates' evidence of experiences for the application of skills and knowledge that it meets the requirements specified in the elements and criteria for this unit of competency.

Signed:	Assessor No.	МТО:	Date:	
Approved by: Technical Training Manager	01/12/2023 Uncontrolled if Printed		R: 3	Page: 9 of 10

	Trade Unit Certification Sheets	AA TT PRO 01a		
Name of Assessed Person:	Registration	Registration:		

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