

AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA228: Test and Troubleshoot Aircraft Instrument Systems and Components										
	a.	Flight Instruments: – Pitot / Static Systems, Airspeed Indicators	No. of Entries	1		2	-	(1)	3	
		(ASIS) Machmeters, Air Data Systems and Instruments, Vertical	Tail / Job No.							
		Speed Indicators (VSIS), Altimeters, Altitude Alerting and Reporting, Turn and Bank, Directional Gyros (DGS), Artificial Horizons (AHS),	LAME Sign.							
1. Prepare for Troubleshooting	Angle of Attack, Stall Warning / Avoidance, Ground Proximity Warning System (GPWS), Flight Data Recorders (FDR's) b. Engine Instruments:— Engine Speed, Pressure, Temperature,	Date								
			Simulated	Yes	No	Yes	No	Yes	No	
		Engine Instruments:— Engine Speed, Pressure, Temperature, Performance, Vibration, Torque	No. of Entries	1		2)	3	3	
			Tail / Job No.							
			LAME Sign.							
			Date							
			Simulated	Yes	No	Yes	No	Yes	No	
			No. of Entries	1		2	<u>)</u>	(1)	3	
	c.	Instrument Navigation Systems: – Inertial Navigation Systems (INS),	Tail / Job No.							
		Inertial Reference Systems, Compasses, Attitude Heading Reference System (AHRS)	LAME Sign.							
			Date							
		Simulated	Yes	No	Yes	No	Yes	No		

Performance Criteria:

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



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			No. of Entries	1		2)	3	3		
	الم	Missellaneaux Procesure Fuel Quantity Fuel Flags Position	Tail / Job No.								
	d.	Miscellaneous: – Pressure, Fuel Quantity, Fuel Flow, Position, Voltage, Frequency, Current and Power	LAME Sign.								
1. Cont'd Prepare for Troubleshooting	Da	Date									
			Simulated	Yes	No	Yes	No	Yes	No		
	e.	Display Systems: - Electronic Flight Instrument Systems (EFIS), Engine Indicating and Crew Alerting Systems (EICAS), Flight	No. of Entries	1		2) -	3	3		
			Tail / Job No.								
		Management Computer Systems (FMCS), Electronic Centralised	LAME Sign.								
		omitted where not applicable to the enterprise)	Date								
			Simulated	Yes	No	Yes	No	Yes	No		
			No. of Entries	1		1		1 2		3	3
	f	Integrated Medular Avienics (may be emitted where not	Tail / Job No.								
	1.	f. Integrated Modular Avionics. (may be omitted where not applicable to the enterprise)	LAME Sign.								
		applicable to the effect prise;	Date								
			Simulated	Yes	No	Yes	No	Yes	No		

Performance Criteria:

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		(ASIS) Machmeters, Air Data Systems and Instruments, Vertical	Tail / Job No.							
		Speed Indicators (VSIS), Altimeters, Altitude Alerting and Reporting, Turn and Bank, Directional Gyros (DGS), Artificial Horizons (AHS),	LAME Sign.							
2. Test / Adjust Instrument and b. Display Systems		Date								
		Warning System (GPWS), Flight Data Recorders (FDR's)	Simulated	Yes	No	Yes	No	Yes	No	
		No. of Entries	1		1 2		2 3			
	h	b. Engine Instruments:— Engine Speed, Pressure, Temperature, Performance, Vibration, Torque	Tail / Job No.							
	D.		LAME Sign.							
			Date							
			Simulated	Yes	No	Yes	No	Yes	No	
			No. of Entries	1	L	2	2	(1)	3	
	c.	Instrument Navigation Systems: – Inertial Navigation Systems (INS),	Tail / Job No.							
		' ' ' '	LAME Sign.							
			Date							
			Simulated	Yes	No	Yes	No	Yes	No	

Performance Criteria:

- 2.1 The aircraft and systems are correctly prepared, in accordance with specified procedures, for the application of power and system operation.
- 2.2 Instrument or display system is functionally tested, in accordance with specified procedures, for evidence of serviceability or malfunction while observing all relevant work health and safety (WHS) requirements.
- 2.3 System calibration or adjustments are performed in accordance with specified procedures.



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UNIT MEA228: Test and Troubleshoot Aircraft Instrument Systems and Components										
			No. of Entries	1		2	<u>)</u>	***	3	
	الم	Missellaneaux Pressure Fuel Quantity Fuel Flags Position	Tail / Job No.							
	d.	Miscellaneous: – Pressure, Fuel Quantity, Fuel Flow, Position, Voltage, Frequency, Current and Power	LAME Sign.							
2. Cont'd Test / Adjust Instrument and Display Systems		voltage, Frequency, Current and Fower	Date							
		e. Display Systems: - Electronic Flight Instrument Systems (EFIS), Engine Indicating and Crew Alerting Systems (EICAS), Flight Management Computer Systems (FMCS), Electronic Centralised Aircraft Monitor (ECAM) and Head-Up Display (HUD). (may be omitted where not applicable to the enterprise)	Simulated	Yes	No	Yes	No	Yes	No	
	e.		No. of Entries	1		1 2		3		
			Tail / Job No.							
			LAME Sign.							
			Date							
			Simulated	Yes	No	Yes	No	Yes	No	
			No. of Entries	1		1 2		3	3	
	£	Integrated Medular Avianies (may be emitted where not	Tail / Job No.							
	Τ.	applicable to the enterprise)	LAME Sign.							
			Date							
				Yes	No	Yes	No	Yes	No	

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- 2.1 The aircraft and systems are correctly prepared, in accordance with specified procedures, for the application of power and system operation.
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		(ASIS) Machmeters, Air Data Systems and Instruments, Vertical	Tail / Job No.							
		Speed Indicators (VSIS), Altimeters, Altitude Alerting and Reporting, Turn and Bank, Directional Gyros (DGS), Artificial Horizons (AHS),	LAME Sign.							
3. Troubleshoot Instrument and Display Systems		Date								
		Warning System (GPWS), Flight Data Recorders (FDR's)	Simulated	Yes	No	Yes	No	Yes	No	
		No. of Entries	1		1 2		2 3			
	h	Engine Instruments, Engine Cheed Dressure Temperature	Tail / Job No.							
	-	Performance, Vibration, Torque	LAME Sign.							
			Date							
			Simulated	Yes	No	Yes	No	Yes	No	
			No. of Entries	1	L	2	<u>)</u>	(1)	3	
	c.	Instrument Navigation Systems: – Inertial Navigation Systems (INS),	Tail / Job No.							
	Inertial Reference Systems, Compasses, Attitude Heading Reference	LAME Sign.								
		System (AHRS)	Date							
			Simulated	Yes	No	Yes	No	Yes	No	

Performance Criteria:

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate *Troubleshooting* to line replacement level.
- 3.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 3.4 Instrument or display system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
- 3.5 Fault rectification requirements are determined to assist in planning the repair or adjustment.
- ** Note: Troubleshooting: involves the use of fault finding charts or similar, to line replacement level.



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			No. of Entries	1		2		(1)	3																		
	لم ا	Missellaneaux Procesure Fuel Quantity Fuel Flags Position	Tail / Job No.																								
	d.	Miscellaneous: – Pressure, Fuel Quantity, Fuel Flow, Position, Voltage, Frequency, Current and Power	LAME Sign.																								
3. Cont'd Troubleshoot Instrument and Display Systems		voltage, frequency, current and rower	Date																								
			Simulated	Yes	No	Yes	No	Yes	No																		
	e.	Engine Indicating and Crew Alerting Systems (EICAS), Flight Management Computer Systems (FMCS), Electronic Centralised Aircraft Monitor (ECAM) and Head-Up Display (HUD). (may be	No. of Entries	1		1		1		1		1		1		1		1		1		1		1 2		3	
			Tail / Job No.																								
			LAME Sign.																								
			Date																								
			Simulated	Yes	No	Yes	No	Yes	No																		
			No. of Entries	1		2) -	(3)	3																		
	£ .	Integrated Medular Avianies (may be emitted where not	Tail / Job No.																								
	Ι.	applicable to the enterprise)	LAME Sign.																								
			Date																								
			Simulated	Yes	No	Yes	No	Yes	No																		

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Confirmation of Underpinning Knowledge and Skills to Test and Troubleshoot Aircraft Instrument 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 and performance criteria of this unit of competency are being achieved under routine supervision on a system and on at least one (1) item from each of groups a) to f), (Groups e) and f) may be omitted where they are not applicable to the enterprise) in the range statement and at least one major system component for each listed system type. This shall be established via the records in the Journal of Experience or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).

UNIT MEA228: Test and Troubleshoot Aircraft Instrument 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).	
224, 226	
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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