Name of Assessed Person: **Registration:**

UNIT MEAAVI0010: Inspect, Test and Troubleshoot Advanced Aircraft Instrument Systems and Components						
1. Inspect Advanced Aircraft Instrument Systems and Components	a. Pitot / Static System Components, Airspeed Indicators (ASIS), Vertical Speed Indicators (VSIS), Air Data Systems and Components, Machmeters, Altimeters Including Servo and Encoding Altimeters, Angle of Attack and Stall Warning / Avoidance Systems.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Turn and Slip Indicators, Directional Gyros (DGs), Artificial Horizons (AHs), Attitude and Heading Reference Systems (AHRS) and Components, Remote Reading Gyro Compass Systems and Components and Direct Reading Compasses	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Turbine Engine Indication Systems and Components (Tachometers, Pressure, Temperature, Engine Performance, Engine Vibration)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Transmitter / Indicator Measuring Instrument Systems (Pressure, Temperature and Position)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

1.1 Identify specific inspection requirements using maintenance documentation and modification status, including relevant system defect reports.
1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with maintenance manual.
1.3 Visually or physically check instrument system components for external signs of defects in accordance with maintenance manual while observing all relevant work health and safety (WHS) requirements.
1.4 Identify and report defects in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0010: Inspect, Test and Troubleshoot Advanced Aircraft Instrument Systems and Components					
1. Cont'd Inspect Advanced Aircraft Instrument Systems and Components	e. Fuel Quantity Indication and Flow Systems and Components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Ground Proximity Warning System (GPWS.) **(may be omitted where not applicable to the enterprise)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Flight Data Recorders (FDRs) **(may be omitted where not applicable to the enterprise)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

1.1 Identify specific inspection requirements using maintenance documentation and modification status, including relevant system defect reports.
1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with maintenance manual.
1.3 Visually or physically check instrument system components for external signs of defects in accordance with maintenance manual while observing all relevant work health and safety (WHS) requirements.
1.4 Identify and report defects in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0010: Inspect, Test and Troubleshoot Advanced Aircraft Instrument Systems and Components						
2. **Test or Adjust Aircraft Advanced Instrument Systems and Components**	a. Pitot / Static System Components, Airspeed Indicators (ASIS), Vertical Speed Indicators (VSIS), Air Data Systems and Components, Machmeters, Altimeters Including Servo and Encoding Altimeters, Angle of Attack and Stall Warning / Avoidance Systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Turn and Slip Indicators, Directional Gyros (DGs), Artificial Horizons (AHs), Attitude and Heading Reference Systems (AHRS) and Components, Remote Reading Gyro Compass Systems and Components and Direct Reading Compasses	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Turbine Engine Indication Systems and Components (Tachometers, Pressure, Temperature, Engine Performance, Engine Vibration)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Transmitter / Indicator Measuring Instrument Systems (Pressure, Temperature and Position)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

2.1 Prepare aircraft and system for application of power or system operation in accordance with maintenance manual.
2.2 Perform functional testing of instrument system for evidence of serviceability or malfunction in accordance with maintenance manual.
2.3 Perform required calibration or adjustments to system in accordance with maintenance manual.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0010: Inspect, Test and Troubleshoot Advanced Aircraft Instrument Systems and Components					
2. Cont'd Test / Adjust Advanced Aircraft Instrument Systems and Components	e. Fuel Quantity Indication and Flow Systems and Components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Ground Proximity Warning System (GPWS.) **(may be omitted where not applicable to the enterprise)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Flight Data Recorders (FDRs) **(may be omitted where not applicable to the enterprise)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

2.1 Prepare aircraft and system for application of power or system operation in accordance with maintenance manual.
2.2 Perform functional testing of instrument system for evidence of serviceability or malfunction in accordance with maintenance manual.
2.3 Perform required calibration or adjustments to system in accordance with maintenance manual.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0010: Inspect, Test and Troubleshoot Advanced Aircraft Instrument Systems and Components						
3. Troubleshoot Aircraft Advanced Instrument Systems	a. Pitot / Static System Components, Airspeed Indicators (ASIS), Vertical Speed Indicators (VSIS), Air Data Systems and Components, Machmeters, Altimeters Including Servo and Encoding Altimeters, Angle of Attack and Stall Warning / Avoidance Systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Turn and Slip Indicators, Directional Gyros (DGs), Artificial Horizons (AHs), Attitude and Heading Reference Systems (AHRS) and Components, Remote Reading Gyro Compass Systems and Components and Direct Reading Compasses	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Turbine Engine Indication Systems and Components (Tachometers, Pressure, Temperature, Engine Performance, Engine Vibration)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Transmitter / Indicator Measuring Instrument Systems (Pressure, Temperature and Position)	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 documentation and inspection and test results to assist in fault determination of identified issues.
3.2 Troubleshoot issues to line replacement level using maintenance manual fault diagnosis guides and logic processes.
3.3 Obtain required specialist or supervisory advice to assist with the troubleshooting process.
3.4 Locate instrument system faults and identify and record causes of faults in required maintenance documentation in accordance with standard enterprise procedures.
3.5 Determine requirements for rectification of faults.
** Note: Troubleshooting: involves the use of fault finding charts or similar, to line replacement level.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0010: Inspect, Test and Troubleshoot Advanced Aircraft Instrument Systems					
3. Cont'd Troubleshoot Advanced Aircraft Instrument Systems	e. Fuel Quantity Indication and Flow Systems and Components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Ground Proximity Warning System (GPWS.) **(may be omitted where not applicable to the enterprise)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Flight Data Recorders (FDRs) **(may be omitted where not applicable to the enterprise)**	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 documentation and inspection and test results to assist in fault determination of identified issues.
3.2 Troubleshoot issues to line replacement level using maintenance manual fault diagnosis guides and logic processes.
3.3 Obtain required specialist or supervisory advice to assist with the troubleshooting process.
3.4 Locate instrument system faults and identify and record causes of faults in required maintenance documentation in accordance with standard enterprise procedures.
3.5 Determine requirements for rectification of faults.

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

Name of Assessed Person: **Registration:**

Confirmation of Underpinning Knowledge and Skills to Inspect, Test and Troubleshoot Advanced Aircraft Instrument Systems

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 the unit of competency are being achieved under routine supervision on a system and at least (1) one major system component/line replacement unit (LRU) from each of Groups a) to g) in the Range Statement. ***(Groups f and g may be omitted where they are not applicable to the enterprise)***. 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 MEAAVI0010: Inspect, Test and Troubleshoot Advanced 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). **246, 292**	
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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