Name of Assessed Person: **Registration:**

UNIT MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components						
1. Inspect Basic Aircraft Instrument Systems and Components	a. Pitot/static systems and components, airspeed indicators (ASIs), vertical speed indicators (VSIs), outside air temperature gauges (OAT) and counter-pointer altimeters	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Directional gyros (DGs) and artificial horizons (AHs) (air and electrically driven).	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Turn and Bank and Slip / Turn Coordinators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Direct Reading Compasses	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 where relevant.
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 MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
1. Cont'd Inspect Basic Aircraft Instrument Systems and Components	e. Remote reading gyro compass systems **(may be omitted if not relevant to the organisation)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Piston engine indication system components (direct reading measuring instruments and temperature indication)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Gas turbine engine indication system components **(may be omitted if not relevant to the organisation)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	h. Electrical systems indication (voltage, current, power and frequency)	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 where relevant.
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 MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
1. Cont'd **Inspect Basic Aircraft Instrument Systems and Components**	i. Basic fuel quantity indication systems and components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	j. Pneumatic / vacuum indication components	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 where relevant.
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 MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
2. **Test or Adjust Basic Aircraft Instrument Systems and Components**	a. Pitot/static systems and components, airspeed indicators (ASIs), vertical speed indicators (VSIs), outside air temperature gauges (OAT) and counter-pointer altimeters.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Directional gyros (DGs) and artificial horizons (AHs) (air and electrically driven)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Turn and Bank and Slip / Turn Coordinators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Direct Reading Compasses	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 MEAAVI009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
2. Cont'd **Test or Adjust Basic Aircraft Instrument Systems and Components**	e. Remote reading gyro compass systems **(may be omitted if not relevant to the organisation)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Piston engine indication system components (direct reading measuring instruments and temperature indication)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Gas turbine engine indication system components **(may be omitted if not relevant to the organisation)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	h. Electrical systems indication (voltage, current, power and frequency)	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 MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
2. Cont'd **Test or Adjust Basic Aircraft Instrument Systems and Components.**	i. Basic fuel quantity indication systems and components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	j. Pneumatic / vacuum indication components.	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 MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
3. Troubleshoot Basic Aircraft Instrument Systems and Components	a. Pitot/static systems and components, airspeed indicators (ASIs), vertical speed indicators (VSIs), outside air temperature gauges (OAT) and counter-pointer altimeters	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Directional gyros (DGs) and artificial horizons (AHs) (air and electrically driven).	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Turn and Bank and Slip / Turn Coordinators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Direct Reading Compasses	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 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 MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
3. Cont'd Troubleshoot Basic Aircraft Instrument Systems and Components	e. Remote reading gyro compass systems **(may be omitted if not relevant to the organisation)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Piston engine indication system components (direct reading measuring instruments and temperature indication)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Gas turbine engine indication system components **(may be omitted if not relevant to the organisation)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	h. Electrical systems indication (voltage, current, power and frequency)	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 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 MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems and Components					
3. Cont'd Troubleshoot Basic Aircraft Instrument Systems and Components	i. Basic fuel quantity indication systems and components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	j. Pneumatic / vacuum indication components	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 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 Basic 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 one (1) major system component/line replaceable unit (LRU) from each of Groups a) to j) 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 Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).

UNIT MEAAVI0009: Inspect, Test and Troubleshoot Basic Aircraft Instrument Systems	**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). **AVI0004, 246**	
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:** _____