Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components

1. Inspect Basic Aircraft Instrument System and Components	a. Pitot/static systems and components, airspeed indicators (ASI), vertical speed indicators (VSI), 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 from relevant maintenance documentation and modification status, including system defect reports.
1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with maintenance manual while observing work health and safety (WHS) requirements.
1.3 Visually or physically check instrument system components for external signs of defects in accordance with maintenance manual.
1.4 Identify and report defects in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components

1. Cont'd **Inspect Basic Aircraft Instrument System and Components**	e. Piston engine and gas turbine 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
	f. Electrical systems indication (voltage and current)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. 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
	h. 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 from relevant maintenance documentation and modification status, including system defect reports.
1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with maintenance manual while observing work health and safety (WHS) requirements.
1.3 Visually or physically check instrument system components for external signs of defects in accordance with maintenance manual.
1.4 Identify and report defects in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components					
1. Cont'd **Inspect Basic Aircraft Instrument System and Components**	i. Electronic flight and engine instruments **(where 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 from relevant maintenance documentation and modification status, including system defect reports.
1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with maintenance manual while observing work health and safety (WHS) requirements.
1.3 Visually or physically check instrument system components for external signs of defects in accordance with maintenance manual.
1.4 Identify and report defects in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components					
2. **Test or Adjust Basic Aircraft Instrument Systems and Components**	a. Pitot/static systems and components, airspeed indicators (ASI), vertical speed indicators (VSI), 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 on 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 MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components

2. Cont'd **Test/Adjust Basic Aircraft Instrument Systems and Components**	e. Piston engine and gas turbine 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
	f. Electrical systems indication (voltage and current)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. 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
	h. 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 on 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 MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components									
2. Cont'd **Test/Adjust Basic Aircraft Instrument Systems and Components**	i. Electronic flight and engine instruments **(where 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 on 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 MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components					
3. Troubleshoot Basic Aircraft Instrument Systems and Components	a. Pitot/static systems and components, airspeed indicators (ASI), vertical speed indicators (VSI), 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.
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.

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components s

3. Cont'd Troubleshoot Basic Aircraft Instrument Systems and Components	e. Piston engine and gas turbine 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
	f. Electrical systems indication (voltage and current)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. 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
	h. 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.
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.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components									
3. Cont'd **Troubleshoot Basic Aircraft Instrument Systems and Components**	i.	Electronic flight and engine instruments **(where 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.
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.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components					
4. **Remove and Install Basic Aircraft Instrument System Components**	a. Pitot/static systems and components, airspeed indicators (ASI), vertical speed indicators (VSI), 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

Performance Criteria:

4.1 Render system safe and prepare it in accordance with maintenance manual, fitting required isolation tags to ensure personnel safety.
4.2 Remove instrument components in accordance with maintenance manual while observing all WHS requirements.
4.3 Complete and process required maintenance documentation relating to removal in accordance with standard enterprise procedures.
4.4 Tag and pack removed components in accordance with specified procedures.
4.5 Confirm correct part numbers, modification status, serviceability and shelf life of instrument components to be installed.
4.6 Perform physical installation of instrument components in accordance with maintenance manual and regulatory requirements, and ensure appropriate adjustment or alignment is carried out.
4.7 Reinstate system to correct operational condition in preparation for testing, as necessary and in accordance with maintenance manual.
4.8 Complete and process required maintenance documentation in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components s					
4. Cont'd **Remove and Install Basic Aircraft Instrument System Components**	d. Direct reading compasses	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	e. Piston engine and gas turbine 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
	f. Electrical systems indication (voltage and current)	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

4.1 Render system safe and prepare it in accordance with maintenance manual, fitting required isolation tags to ensure personnel safety.
4.2 Remove instrument components in accordance with maintenance manual while observing all WHS requirements.
4.3 Complete and process required maintenance documentation relating to removal in accordance with standard enterprise procedures.
4.4 Tag and pack removed components in accordance with specified procedures.
4.5 Confirm correct part numbers, modification status, serviceability and shelf life of instrument components to be installed.
4.6 Perform physical installation of instrument components in accordance with maintenance manual and regulatory requirements, and ensure appropriate adjustment or alignment is carried out.
4.7 Reinstate system to correct operational condition in preparation for testing, as necessary and in accordance with maintenance manual.
4.8 Complete and process required maintenance documentation in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0045: Maintain Basic Light Aircraft Instrument Systems and Components					
4. Cont'd **Remove and Install Basic Aircraft Instrument System Components**	g. 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
	h. Vacuum indication components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	i. Electronic flight and engine instruments **(*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:

4.1 Render system safe and prepare it in accordance with maintenance manual, fitting required isolation tags to ensure personnel safety.
4.2 Remove instrument components in accordance with maintenance manual while observing all WHS requirements.
4.3 Complete and process required maintenance documentation relating to removal in accordance with standard enterprise procedures.
4.4 Tag and pack removed components in accordance with specified procedures.
4.5 Confirm correct part numbers, modification status, serviceability and shelf life of instrument components to be installed.
4.6 Perform physical installation of instrument components in accordance with maintenance manual and regulatory requirements, and ensure appropriate adjustment or alignment is carried out.
4.7 Reinstate system to correct operational condition in preparation for testing, as necessary and in accordance with maintenance manual.
4.8 Complete and process required maintenance documentation in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

Confirmation of Underpinning Knowledge and Skills to Maintain Basic Light 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 the unit of competency are being achieved under routine supervision on at least one (1) component from each of Groups a) to i), (***Group i) may be omitted where 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 Implementation Guide).

UNIT MEAAVI0045: Maintain Basic Light 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**	
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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