Name of Assessed Person: **Registration:**

UNIT MEAAVI0008: Inspect, Test and Troubleshoot Basic Aircraft Electrical Systems and Components					
1. Inspect DC Aircraft Electrical Systems and Components	a. DC Generators, and Alternator/Rectifier Generators, and Components of Related Single Generator Regulation and Distribution Systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Piston Engine Ignition and Starting System Components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Specific Components of DC Electrical Systems such as Flaps and Landing Gear, Including Related Motors and Actuators	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 are checked and configure aircraft for safe system inspection and operation in accordance with maintenance manual.
1.3 Visually or physically check **DC electrical system** for external signs of defects in accordance with maintenance manual while observing all relevant work health and safety (WHS) requirements.
1.4 Correctly identify and report defects in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0008: Inspect, Test and Troubleshoot Basic Aircraft Electrical Systems and Components					
1. Cont'd **Inspect DC Aircraft Electrical Systems and Components**	d. Gas Turbine Engine Igniter and Starting Systems and Components **(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
	e. Aircraft Lighting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Aircraft Main Batteries	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 are checked and configure aircraft for safe system inspection and operation in accordance with maintenance manual.
1.3 Visually or physically check **DC electrical system** for external signs of defects in accordance with maintenance manual while observing all relevant work health and safety (WHS) requirements.
1.4 Correctly identify and report defects in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAAVI0008: Inspect, Test and Troubleshoot Basic Aircraft Electrical Systems and Components					
2. Test / Adjust DC Aircraft Electrical Systems	a. DC Generators, and Alternator/Rectifier Generators, and Components of Related Single Generator Regulation and Distribution Systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Piston Engine Ignition and Starting System Components.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Specific Components of DC Electrical Systems such as Flaps and Landing Gear, Including Related Motors and Actuators	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 **electrical 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 MEAAVI0008: Inspect, Test and Troubleshoot Basic Aircraft Electrical Systems and Components					
2. Cont'd **Test / Adjust DC Aircraft Electrical Systems**	d. Gas Turbine Engine Igniter and Starting Systems and Components **(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
	e. Aircraft Lighting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Aircraft Main Batteries	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 **electrical 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 MEAAVI0008: Inspect, Test and Troubleshoot Basic Aircraft Electrical Systems and Components					
3. **Troubleshoot DC Aircraft Electrical Systems**	a. DC Generators, and Alternator/Rectifier Generators, and Components of Related Single Generator Regulation and Distribution Systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Piston Engine Ignition and Starting System Components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Specific Components of DC Electrical Systems such as Flaps and Landing Gear, Including Related Motors and Actuators	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.
3.4 Locate 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 MEAAVI0008: Inspect, Test and Troubleshoot Basic Aircraft Electrical Systems and Components					
3. Cont'd Troubleshoot DC Aircraft Electrical Systems	d. Gas Turbine Engine Igniter and Starting Systems and Components **(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
	e. Aircraft Lighting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Aircraft Main Batteries	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.
3.4 Locate 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 Electrical 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 electrical looms, cables and connection hardware, and on each system in the range of conditions and on at least one (1) Groups a) to f) ***(Group d) may be omitted if not applicable to enterprise)*** and on at least one major component/LRU in each case. For f], competency maybe demonstrated through the performance of a battery check. This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide.

UNIT MEAAVI0008: Inspect, Test and Troubleshoot Basic Aircraft Electrical 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). **AVI0002, 246**	
Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organisation. **OR** Examinations have been conducted to determine the underpinning knowledge have been achieved to meet the requirements for the Unit of Competency.	

Certification of Unit Completion

I certify that at the time of this review the candidates' evidence of experiences for the application of skills and knowledge meets the requirements specified in the elements and criteria for this unit of competency.

Signed: _____ **Assessor No.** _____ **MTO:** _____ **Date:** _____

This Page Intentionally Left Blank