

Name of Assessed Person:

Registration:

UNIT MEAAVI0056: Repair and Overhaul Aircraft Electrical/Electro-mechanical Components

1. Determine Requirements	a. Motors, generators and alternators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Static inverters, TRU and regulators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Actuators, solenoids and shutoff valves	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Bus bars, circuit breakers, connectors, electrical looms and fans	No. of Entries	1	2	3
Tail / Job No.					
LAME Sign.					
Date					
Simulated		Yes No	Yes No	Yes No	

Performance Criteria:

- 1.1 Interpret component defect reports (removal tags) or customer orders and match by part and serial numbers to identify requirements.
- 1.2 Inspect components or operate through prescribed test procedures to establish serviceability or confirm defects.
- 1.3 Establish modification status to assist in determining the overhaul requirements for the components.
- 1.4 Identify and document extent of overhaul or repair in accordance with standard enterprise procedures.

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2. Troubleshoot Electrical Electro-mechanical Components	a. Motors, generators and alternators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Static inverters, TRU and regulators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Actuators, solenoids and shutoff valves	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Bus bars, circuit breakers, connectors, electrical looms and fans	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 2.1 Use available information from maintenance records and test results to assist in fault determination.
- 2.2 Troubleshoot electrical-mechanical components using logical processes in accordance with the maintenance documentation.
- 2.3 Obtain required specialist or supervisory advice to assist with or confirm fault and rectification requirements.
- 2.4 Locate electrical or electro-mechanical component faults and identify causes in accordance with standard enterprise procedures.
- 2.5 Determine fault rectification requirements to assist in planning repair.

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3. Dismantle and Inspect Electrical Electro-mechanical Components	a. Motors, generators and alternators	No. of Entries	1	2	3	
		Tail / Job No.				
		LAME Sign.				
		Date				
		Simulated	Yes No	Yes No	Yes No	
	b. Static inverters, TRU and regulators	No. of Entries	1	2	3	
		Tail / Job No.				
		LAME Sign.				
		Date				
		Simulated	Yes No	Yes No	Yes No	
	c. Actuators, solenoids and shutoff valves	No. of Entries	1	2	3	
		Tail / Job No.				
		LAME Sign.				
		Date				
		Simulated	Yes No	Yes No	Yes No	
	d. Bus bars, circuit breakers, connectors, electrical looms and fans	No. of Entries	1	2	3	
		Tail / Job No.				
LAME Sign.						
Date						
Simulated		Yes No	Yes No	Yes No		
<p>Performance Criteria:</p> <p>3.1 Dismantle component parts in accordance with maintenance manuals while observing all relevant work health and safety (WHS) requirements.</p> <p>3.2 Assess component parts for serviceability in accordance with maintenance documentation.</p> <p>3.3 Tag parts requiring specialist repair and specify repair instructions.</p> <p>3.4 Compile and process parts lists in accordance with standard enterprise procedure.</p>						

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4. Repair and/or Modify Electrical Electro-mechanical Components	a. Motors, generators and alternators	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
	b. Static inverters, TRU and regulators	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
	c. Actuators, solenoids and shutoff valves	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
	d. Bus bars, circuit breakers, connectors, electrical looms and fans	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
Performance Criteria: 4.1 Repair or replace component parts in accordance with maintenance documentation. 4.2 Make required modifications to components or parts in accordance with relevant manufacturer's bulletins or procedures.							

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5. Assemble, Test and Adjust Electrical Electro-mechanical Components	a. Motors, generators and alternators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Static inverters, TRU and regulators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Actuators, solenoids and shutoff valves	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Bus bars, circuit breakers, connectors, electrical looms and fans	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 5.1 Assemble component parts in accordance with specified tolerances and maintenance documents.
- 5.2 Test assembled components and adjust or calibrate components to operate within prescribed specifications.
- 5.3 Tag, seal and package finished components in accordance with specified procedures.
- 5.4 Complete and process required maintenance documentation and modification records in accordance with standard enterprise procedures.

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Certification of Underpinning Knowledge and Skills to Repair or Overhaul Aircraft Electrical/Electro-mechanical Components

A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements of this unit of competency are being achieved under routine supervision on each type of system and on at least one (1) component from each of the following groups a) to d). 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).

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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).	
201, 296	
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:** _____