

AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA294: Inspect, Test and Troubleshoot Advanced Aircraft Electrical Systems and Components									
			No. of Entries	-	l	2	2	13	3
			Tail / Job No.						
	a.	DC and AC power generation systems, including regulation, distribution, and control system components	LAME Sign.						
		distribution, and control system components	Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	-	l	2	2	3	3
			Tail / Job No.						
1. Inspect Advanced Aircraft	b. c.	Transformer rectifier units and rotary and static inverters	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
Electrical Systems and		Battery installations, including battery temperature monitoring systems	No. of Entries	-	l	2	2	3	3
Components			Tail / Job No.						
			LAME Sign.						
		Systems	LAIVIE SIGN.						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	:	l	2	2	3	3
	d.	Gas turbine or piston engine ignition and starting systems (may be	Tail / Job No.						
	u.	omitted if not applicable to the organisation)	LAME Sign.						
		omitted if not applicable to the organisation,	Date						
			Simulated	Yes	No	Yes	No	Yes	No

- 1.1 Use required maintenance documentation and modification status, including system defect reports where relevant, to identify specific inspection requirements.
- 1.2 Check isolation tags and configure aircraft for safe system inspection and operation according to applicable maintenance manual.
- 1.3 Visually or physically check electrical systems for external signs of defects according to applicable maintenance manual while observing work health and safety (WHS) requirements.
- 1.4 Correctly identify and report defects using organisational reporting processes.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA294: Inspect, Test and Troubleshoot Advanced Aircraft Electrical Systems and Components									
1. Cont'd Inspect Advanced Aircraft Electrical Systems and Components			No. of Entries	1	L	2	2		3
			Tail / Job No.						
	e.	Motors and actuators	LAME Sign.						
		Date	Date						
				Yes	No	Yes	No		
			No. of Entries	1	L	2	2	***	3
		f. Internal and external lighting systems, including controls LAME Sign. Date Simulated Yes Electrical components specific to systems, such as air cycle air conditioning, combustion heating, equipment cooling, anti-icing and de-icing, landing gear, anti-skid, flight control, master and central LAME Sign. Tail / Job No. Tail / Job No. LAME Sign. LAME Sign. LAME Sign. LAME Sign.	Tail / Job No.						
	f.		LAME Sign.						
			Simulated	Yes	No	Yes	No	Yes	No
	g.		No. of Entries	1		1 2		3	
			Tail / Job No.						
			LAME Sign.						
		warning, fuel storage and distribution, fire warning and	Date						
		extinguishing, and engine propeller control		Yes	No	Yes	No	Yes	No

- 1.1 Use required maintenance documentation and modification status, including system defect reports where relevant, to identify specific inspection requirements.
- 1.2 Check isolation tags and configure aircraft for safe system inspection and operation according to applicable maintenance manual.
- 1.3 Visually or physically check electrical systems for external signs of defects according to applicable maintenance manual while observing work health and safety (WHS) requirements.
- 1.4 Correctly identify and report defects using organisational reporting processes.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA294: Inspect, Test and Troubleshoot Advanced Aircraft Electrical Systems and Components								
			No. of Entries	1	2	3		
			Tail / Job No.					
	a.	DC and AC power generation systems, including regulation, distribution, and control system components	LAME Sign.					
		distribution, and control system components	Date					
			Simulated	Yes No	Yes No	Yes No		
			No. of Entries	1	2	3		
			Tail / Job No.					
	b.	Transformer rectifier units and rotary and static inverters	LAME Sign.					
2. Test and Adjust Advanced Aircraft Electrical Systems			Date					
			Simulated	Yes No	Yes No	Yes No		
		Battery installations, including battery temperature monitoring systems	No. of Entries	1	2	3		
			Tail / Job No.					
	C.		LAME Sign.					
		Systems	Date					
			Simulated	Yes No	Yes No	Yes No		
			No. of Entries	1	2	3		
	d.	Gas turbine or piston engine ignition and starting systems (may be	Tail / Job No.					
	u.	omitted if not applicable to the organisation)	LAME Sign.					
			Date					
			Simulated	Yes No	Yes No	Yes No		

- 2.1 Prepare aircraft and system according to applicable maintenance manual for the application of power and system operation.
- 2.2 Functionally test electrical system according to maintenance manual for evidence of serviceability and malfunction.
- 2.3 Calibrate or adjust system according to maintenance manual, as appropriate.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA294: Inspect, Test and Troubleshoot Advanced Aircraft Electrical Systems and Components									
2. Cont'd Test and Adjust Advanced Aircraft Electrical Systems			No. of Entries	1		2	<u>)</u>	;	3
			Tail / Job No.						
	e.	Motors and actuators	LAME Sign.						
			Date						
			Simulated	Yes	No	-	No		
			No. of Entries	1		1 2		3	
	f. I	Internal and external lighting systems, including controls	Tail / Job No.						
			LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
	g.	g. Electrical components specific to systems, such as air cycle air conditioning, combustion heating, equipment cooling, anti-icing and de-icing, landing gear, anti-skid, flight control, master and central	No. of Entries	1		2	<u>)</u>	;	3
			Tail / Job No.						
			LAME Sign.						
	warning, fuel storage and distribution, fire warning and Date								
		extinguishing, and engine propeller control	Simulated	Yes	No	Yes	No	Yes	No

- 2.1 Prepare aircraft and system according to applicable maintenance manual for the application of power and system operation.
- 2.2 Functionally test electrical system according to maintenance manual for evidence of serviceability and malfunction.
- 2.3 Calibrate or adjust system according to maintenance manual, as appropriate.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA294: Inspect, Test and Troubleshoot Advanced Aircraft Electrical Systems and Components								
			No. of Entries	1	2	3		
			Tail / Job No.					
	a.	DC and AC power generation systems, including regulation, distribution and control system components	LAME Sign.					
		distribution and control system components	Date					
			Simulated	Yes No	Yes No	Yes No		
			No. of Entries	1	2	3		
			Tail / Job No.					
3. Troubleshoot Advanced Aircraft Electrical Systems	b.	Transformer rectifier units and rotary and static inverters	LAME Sign.					
			Date					
			Simulated	Yes No	Yes No	Yes No		
		Battery installations, including battery temperature monitoring systems	No. of Entries	1	2	3		
			Tail / Job No.					
	C.		LAME Sign.					
		Systems	Date					
			Simulated	Yes No	Yes No	Yes No		
			No. of Entries	1	2	3		
	4	Gas turbing or nicton engine ignition and starting systems (may be	Tail / Job No.					
	omitted if not applicable to the organisation)		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 Use maintenance manual fault diagnosis guides and logic processes to ensure efficient and accurate troubleshooting to line replacement level.
- 3.3 Obtain specialist advice, where required, to assist with troubleshooting process.
- 3.4 Locate system faults and clearly identify and correctly record causes of faults in maintenance documentation, where required, according to standard organisational procedures.
- 3.5 Determine rectification requirements according to maintenance requirements.
- ** Note: Troubleshooting, involves the use of fault finding charts or similar, to line replacement level.

R: 3



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA294: Inspect, Test and Troubleshoot Advanced Aircraft Electrical Systems and Components									
		<u> </u>	No. of Entries	1		2	2	- 3	3
			Tail / Job No.						
	e.	Motors and actuators	LAME Sign.						
3. Cont'd Troubleshoot Advanced Aircraft Electrical Systems	Date	Date							
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1		2	2	3	3
	f.	f. Internal and external lighting systems, including controls D Si g. Electrical components specific to systems, such as air cycle air conditioning, combustion heating, equipment cooling, anti-icing and	Tail / Job No.						
			LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
	g.		No. of Entries	1		1 2		3	
			Tail / Job No.						
			LAME Sign.						
		warning, fuel storage and distribution, fire warning and	Date						
		extinguishing, and engine propeller control	Simulated	Yes	No	Yes	No	Yes	No

- 3.1 Use available information from maintenance documentation and inspection and test results to assist in fault determination.
- 3.2 Use maintenance manual fault diagnosis guides and logic processes to ensure efficient and accurate *troubleshooting to line replacement level*.
- 3.3 Obtain specialist advice, where required, to assist with troubleshooting process.
- 3.4 Locate system faults and clearly identify and correctly record causes of faults in maintenance documentation, where required, according to standard organisational procedures.
- 3.5 Determine rectification requirements according to maintenance requirements.
- ** Note: Troubleshooting, involves the use of fault-finding charts, or similar, to line replacement level.



AA TT PRO 01a

Name of Assessed Person: Registration:

Confirmation of Underpinning Knowledge and Skills to Inspect, Test and Troubleshoot Advanced 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 at least one (1) item from each of Groups a) to g) in the Range Statement. (Group d) may be omitted where they are not Applicable to the Organisation). Candidate capability of providing the required performance and knowledge evidence must 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 MEA294: Inspect, Test and Trou	bleshoot Advanced Aircraft Elect	rical Systems and Components	Date / MTO Stamp
Evidence has been confirmed of the attainment	ent of the following pre-requisite	units of competency (as they are related	
to attainment of the elements of competence	y specified in this unit).		
	203		
Evidence has been confirmed of the knowled	ge requirements for this unit as d	lelivered by a CASR 147 Approved	
Organisation.			
	OR		
Account has been and distant data was			
Assessment has been conducted to determin	e that the underpinning knowled	ge and skills have been achieved in	
accordance with the Competency Unit.			
Certification of Unit Completion			
certification of offit completion			
I certify that I have reviewed the certification	of the elements for this competer	ncy unit and that all of the competency un	it requirements have been met.
	,	, a a a a a a a	
Signed:	Assessor No.	MTO:	Date:

R: 3



AA TT PRO 01a

Name of Assessed Person: Registration:

This Page Intentionally Left Blank

R: 3