

AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	1		2	<u>)</u>	;	3
		AC and/or DC Dawar Congration Degulation and Distribution	Tail / Job No.						
	a.	AC and/or DC Power Generation, Regulation and Distribution Systems	LAME Sign.						
		Systems	Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1		2	2	;	3
			Tail / Job No.						
	b.	Rotary and Static Inverters and TR Units	LAME Sign.						
			Date						
1.			Simulated	Yes	No	Yes	No	Yes	No
Prepare for Troubleshooting			No. of Entries	1		2	2	;	3
			Tail / Job No.						
	c.	Air Cycle Air Conditioning and Pressurisation Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1		2	<u> </u>	;	3
			Tail / Job No.						
	d.	Flight, and Engine Control Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:



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UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	-	L	2	2	Ξ	3
			Tail / Job No.						
	e.	Ignition and Starting Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	- 1	L	2	2	3	3
			Tail / Job No.						
	f.	Fire / Smoke Detection and Extinguishing	LAME Sign.						
			Date						
1. Cont'd			Simulated	Yes	No	Yes	No	Yes	No
Prepare for Troubleshooting			No. of Entries		L	2	2	3	3
			Tail / Job No.						
	g.	Lighting	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries		L	2	2	3	3
			Tail / Job No.						
	h.	Master and Caution Warning Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:



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UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	-	L	2	2	(1)	3
			Tail / Job No.						
	i.	Equipment Cooling and Ventilation	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	-	L	12	2	(1)	3
			Tail / Job No.						
	j.	Equipment and Furnishing	LAME Sign.						
			Date						
1. Cont'd			Simulated	Yes	No	Yes	No	Yes	No
Prepare for Troubleshooting			No. of Entries		L	12	<u> </u>	(1)	3
			Tail / Job No.						
	k.	Position Indicating Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries		L	2	2	(3)	3
			Tail / Job No.						
	I.	Fuel Storage and Distribution	LAME Sign.						
		0	Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:



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UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries		1	2	2		3
			Tail / Job No.						
	m.	Landing Gear Indication and Antiskid	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries		1	2	2	;	3
			Tail / Job No.						
	n.	Battery Installations and Bus Ties / Interlocks Propeller Control Systems (may be omitted where not applicable to	LAME Sign.						
			Date						
1. Cont'd			Simulated	Yes	No	Yes	No	Yes	No
Prepare for Troubleshooting			No. of Entries	:	1	2	2	3	3
	0.		Tail / Job No.						
	0.	the enterprise)	LAME Sign.						
		the checiphoty	Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries		1	2	<u>)</u>	:	3
	n	Ice and Rain Protection (may be omitted where not applicable to	Tail / Job No.						
	p.	the enterprise)	LAME Sign.						
		the enterprise;	Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:



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UNIT MEA227: Test and Tro	oublesho	ot Aircraft Electrical Systems and Components							
			No. of Entries	1		2)	(1)	3
1.05.44		Markovska form by and the durk on a set on thank to the	Tail / Job No.						
1. Cont'd Prepare for Troubleshooting	q.	Wastewater (may be omitted where not applicable to the enterprise)	LAME Sign.						
Prepare for froubleshooting		enterprise)	Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:



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Name of Assessed Person: Registration:

UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	1		2	<u>)</u>	(1)	3
		AC and/or DC Dower Congration Degulation and Distribution	Tail / Job No.						
	a.	AC and/or DC Power Generation, Regulation and Distribution Systems.	LAME Sign.						
		Systems.	Date						
			Simulated	Yes N	lo	Yes	No	Yes	No
			No. of Entries	1		2	2	(1)	3
			Tail / Job No.						
	b.	Rotary and Static Inverters and TR Units	LAME Sign.						
			Date						
2.			Simulated	Yes N	lo	Yes	No	Yes	No
Test/adjust electrical systems			No. of Entries	1		2	<u>)</u>	3	3
			Tail / Job No.						
	c.	Air Cycle Air Conditioning and Pressurisation Systems	LAME Sign.						
			Date						
			Simulated	Yes N	lo	Yes	No	Yes	No
			No. of Entries	1		2	<u> </u>	(1)	3
			Tail / Job No.						
	d.	Flight, and Engine Control Systems	LAME Sign.						
			Date						
			Simulated	Yes N	lo	Yes	No	Yes	No

- 2.1 Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation.
- 2.2 Electrical system is functionally tested, in accordance with maintenance manual, for evidence of serviceability or malfunction while observing all relevant work health and safety (WHS) requirements.
- 2.3 System calibration or adjustments are performed in accordance with maintenance manual, as appropriate.



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UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	1		2		[3
			Tail / Job No.						
	e.	Ignition and Starting Systems	LAME Sign.					<u> </u>	
			Date					<u> </u>	
			Simulated	Yes No	Y	es	No	Yes	No
			No. of Entries	1		2		[3
			Tail / Job No.						
	f.	Fire / Smoke Detection and Extinguishing	LAME Sign.						
			Date						
2. Cont'd	Simulated	Simulated	Yes No	Y	es	No	Yes	No	
Test/adjust electrical systems			No. of Entries	1		2		[3
			Tail / Job No.					<u></u>	
	g.	Lighting	LAME Sign.						
			Date					<u> </u>	
			Simulated	Yes No	Y	es	No	Yes	No
			No. of Entries	1		2		3	3
			Tail / Job No.						
ŀ	h. Master and Caution Warning Systems	LAME Sign.					<u> </u>		
			Date					<u> </u>	
			Simulated	Yes No	Y	es	No	Yes	No

- 2.1 Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation.
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UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	1		12	2	(1)	3
			Tail / Job No.						
	i.	Equipment Cooling and Ventilation	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1		12	2	(1)	3
			Tail / Job No.						
	j.	Equipment and Furnishing	LAME Sign.						
			Date						
2. Cont'd			Simulated	Yes	No	Yes	No	Yes	No
Test/adjust electrical systems			No. of Entries	1	<u> </u>	2	2	3	3
			Tail / Job No.						
	k.	Position Indicating Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
1			No. of Entries	1		2	2	(3)	3
			Tail / Job No.						
	I. Fuel Storage and Distribution	LAME Sign.							
		Date							
			Simulated	Yes	No	Yes	No	Yes	No

- 2.1 Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation.
- 2.2 Electrical system is functionally tested, in accordance with maintenance manual, for evidence of serviceability or malfunction while observing all relevant work health and safety (WHS) requirements.
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UNIT MEA227: Test and Tro	ubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	-	l	2	<u>)</u>	(1)	3
			Tail / Job No.						
	m.	Landing Gear Indication and Antiskid	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	-	1	2)	3	3
			Tail / Job No.						
	n.	Propeller Control Systems (may be omitted where not applicable to	LAME Sign.						
			Date						
2. Cont'd			Simulated	Yes	No	Yes	No	Yes	No
Test/adjust electrical systems			No. of Entries	-	L	2	<u>-</u>	3	3
	0.		Tail / Job No.						
	0.	the enterprise)	LAME Sign.						
		the enterprise;	Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries		L	2		3	3
	p.	Ice and Rain Protection (may be omitted where not applicable to	Tail / Job No.						
	ρ.	the enterprise)	LAME Sign.						
	tne enterprise)	Date							
			Simulated	Yes	No	Yes	No	Yes	No

- 2.1 Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation.
- 2.2 Electrical system is functionally tested, in accordance with maintenance manual, for evidence of serviceability or malfunction while observing all relevant work health and safety (WHS) requirements.
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UNIT MEA227: Test and Tro	ublesho	ot Aircraft Electrical Systems and Components							
			No. of Entries	1		2		(1)	8
2.0		Westernates for an beginning to the second section of the section of th	Tail / Job No.						
2. Cont'd Test/adjust electrical systems	q.	` '	LAME Sign.						
rest/adjust electrical systems		enterprise)	Date						
			Simulated	Yes	No	Yes	No	Yes	No

- 2.1 Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation.
- 2.2 Electrical system is functionally tested, in accordance with maintenance manual, for evidence of serviceability or malfunction while observing all relevant work health and safety (WHS) requirements.
- 2.3 System calibration or adjustments are performed in accordance with maintenance manual, as appropriate.



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Name of Assessed Person: Registration:

UNIT MEA227: Test and Tro	oubles	shoot Aircraft Electrical Systems and Components							
			No. of Entries	1		2		(1)	3
		AC and/or DC Dower Congration Regulation and Distribution	Tail / Job No.						
	a.	AC and/or DC Power Generation, Regulation and Distribution Systems	LAME Sign.						
		Systems	Date						
			Simulated	Yes No	Y	es	No	Yes	No
			No. of Entries	1		2		(1)	3
			Tail / Job No.						
	b.	Rotary and Static Inverters and TR Units	LAME Sign.						
2			Date						
3. Troubleshoot electrical			Simulated	Yes No	Y	es	No	Yes	No
systems			No. of Entries	1		2		3	3
Systems			Tail / Job No.						
	c.	Air Cycle Air Conditioning and Pressurisation Systems	LAME Sign.						
			Date						
			Simulated	Yes No	Y	es	No	Yes	No
			No. of Entries	1		2		(1)	3
			Tail / Job No.						
	d.	Flight, and Engine Control Systems	LAME Sign.						
			Date						
			Simulated	Yes No	Y	es	No	Yes	No

Performance Criteria:

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate *troubleshooting* to line replacement level.
- 3.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 3.4 System faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
- 3.5 Rectification requirements are determined.
- ** Note: Troubleshooting: involves the use of fault finding charts or similar, to line replacement level.



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UNIT MEA227: Test and Tro	oubles	hoot Aircraft Electrical Systems and Components							
			No. of Entries	1	L	2	2	(1)	3
			Tail / Job No.						
	e.	Ignition and Starting Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1	L	2	<u>)</u>	(1)	3
			Tail / Job No.						
	f.	Fire / Smoke Detection and Extinguishing	LAME Sign.						
3. Cont'd			Date						
Troubleshoot electrical			Yes	No	Yes	No	Yes	No	
systems			No. of Entries	1	L	2	<u>)</u>	(1)	3
Systems			Tail / Job No.						
	g.	Lighting	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1	L	2)	3	3
			Tail / Job No.						
	h.	Master and Caution Warning Systems	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate *troubleshooting*.
- 3.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 3.4 System faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
- 3.5 Rectification requirements are determined.
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UNIT MEA227: Test and Troubleshoot Aircraft Electrical Systems and Components									
	i.	Equipment Cooling and Ventilation	No. of Entries	1	L	2	2	(1)	3
			Tail / Job No.						
			LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
		j. Equipment and Furnishing Equipment and Furnishing LAME Sign. Date Simulated	No. of Entries	1	L	2	2		3
			Tail / Job No.						
	j.		LAME Sign.						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1	L	2	2	(1)	3
			Tail / Job No.						
	k.	Position Indicating Systems	LAME Sign.						
		Date Simulated	Date						
			Simulated	Yes	No	Yes	No	Yes	No
		I. Fuel Storage and Distribution	No. of Entries	1		2		3	
			Tail / Job No.						
	I.		LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate *troubleshooting*.
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UNIT MEA227: Test and Troubleshoot Aircraft Electrical Systems and Components									
	m.	Landing Gear Indication and Antiskid	No. of Entries	1		2		3	
			Tail / Job No.						
			LAME Sign.						
			Date						
			Simulated	Yes No	Yes	No	Yes	No	
		n. Battery Installations and Bus Ties / Interlocks	No. of Entries	1		2		3	
	n.		Tail / Job No.						
3. Cont'd Troubleshoot electrical systems			LAME Sign.						
			Date						
			Simulated	Yes No	Yes	No	Yes	No	
			No. of Entries	1		2		3	
		propeller Control Systems (may be omitted where not applicable to the enterprise)	Tail / Job No.						
	0.		LAME Sign.						
			Date						
			Simulated	Yes No	Yes	No	Yes	No	
			No. of Entries	1		2		3	
	n	o. Ice and Rain Protection (may be omitted where not applicable to the enterprise)	Tail / Job No.						
	_ ·		LAME Sign.				<u> </u>		
			Date						
			Simulated	Yes No	Yes	No	Yes	No	

Performance Criteria:

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate *troubleshooting*.
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- 3.4 System faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
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UNIT MEA227: Test and Troubleshoot Aircraft Electrical Systems and Components									
			No. of Entries	1		2) -	3	3
3. Cont'd Troubleshoot electrical systems	Western to the best to the best to the	Tail / Job No.							
	q.	 q. Wastewater (may be omitted where not applicable to the enterprise) 	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate *troubleshooting*.
- 3.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 3.4 System faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
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Name of Assessed Person: Registration:

Confirmation of Underpinning Knowledge and Skills to Test and Troubleshoot 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 a system and at least one (1) item from each of groups a) to q), including all related electrical hardware, looms and cables. (Groups o) to q) may be omitted where they are not Applicable to the Enterprise) in the range statement and at least one major component for each listed system type. 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 MEA227: Test and Troubleshoot 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).	
223	
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.

igned:	Assessor No.	MTO:	Date: