

Name of Assessed Person:

Registration:

UNIT MEA229: Test and Troubleshoot Aircraft Radio Frequency Navigation and Communications Systems and Components

1. Prepare for Troubleshooting	a. Control and Sensing associated with Cockpit Radio, Ground and Flight Crew Communications and may comprise FM and AM Modes of Operation in the HF, UHF, and VHF Bands, Microwave Systems and SATCOM	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Passenger Communications, Cockpit Voice Recorder / Audio Integration System, Cabin Intercommunication Data Systems, Cabin Network Services. (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
	c. Information Systems such as Air Traffic and Information Management Systems and Network Server Systems. (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:

1.1 Relevant maintenance documentation and modification status, including systems defect reports, where relevant, are used to identify unserviceability.

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UNIT MEA229: Test and Troubleshoot Aircraft Radio Frequency Navigation and Communications Systems and Components

1. Cont'd Prepare for Troubleshooting	d. ILS, VOR, ADF, GNS, Emergency Beacons, ACARS	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	e. Antennae, Impedance Audio Matching Devices, Microphones and Headphones, Transmission Lines, Computer Controls, Line Replaceable Units, Transmitters / Receivers and Indicators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

1.1 Relevant maintenance documentation and modification status, including systems defect reports, where relevant, are used to identify unserviceability.

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UNIT MEA229: Test and Troubleshoot Aircraft Radio Frequency Navigation and Communications Systems and Components

2. Test / Adjust RF Navigation and Communications Systems	a. Control and Sensing associated with Cockpit Radio, Ground and Flight Crew Communications and may comprise FM and AM Modes of Operation in the HF, UHF, and VHF Bands, Microwave Systems and SATCOM	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Passenger Communications, Cockpit Voice Recorder / Audio Integration System, Cabin Intercommunication Data Systems, Cabin Network Services. (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
	c. Information Systems such as Air Traffic and Information Management Systems and Network Server Systems. (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:

- 2.1 Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation.
- 2.2 RF navigation or communication 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 MEA229: Test and Troubleshoot Aircraft Radio Frequency Navigation and Communications Systems and Components

2. Cont'd Test / Adjust RF Navigation and Communications Systems	d. ILS, VOR, ADF, GNS, Emergency Beacons, ACARS	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	e. Antennae, Impedance Audio Matching Devices, Microphones and Headphones, Transmission Lines, Computer Controls, Line Replaceable Units, Transmitters / Receivers and Indicators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

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3. Troubleshoot RF Navigation and Communications Systems	a. Control and Sensing associated with Cockpit Radio, Ground and Flight Crew Communications and may comprise FM and AM Modes of Operation in the HF, UHF, and VHF Bands, Microwave Systems and SATCOM	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Passenger Communications, Cockpit Voice Recorder / Audio Integration System, Cabin Intercommunication Data Systems, Cabin Network Services. (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
	c. Information Systems such as Air Traffic and Information Management Systems and Network Server Systems. (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:

- 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 RF navigation or communication system faults are located and the causes 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 MEA229: Test and Troubleshoot Aircraft Radio Frequency Navigation and Communications Systems and Components

3. Cont'd Troubleshoot RF Navigation and Communications Systems	d. ILS, VOR, ADF, GNS, Emergency Beacons, ACARS	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
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		Simulated	Yes No	Yes No	Yes No
	e. Antennae, Impedance Audio Matching Devices, Microphones and Headphones, Transmission Lines, Computer Controls, Line Replaceable Units, Transmitters / Receivers and Indicators	No. of Entries	1	2	3
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- 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 RF navigation or communication system faults are located and the causes are clearly identified and correctly recorded in maintenance documentation, where required.
- 3.5 Determine rectification requirements.

**** Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

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Confirmation of Underpinning Knowledge and Skills to Test and Troubleshoot Aircraft Radio Frequency Navigation and Communications 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) system and its major components from each of Groups a) to e) **(Group b) and c) may be omitted where the listed systems are not applicable to the enterprise)** and the general associated components in Group d), as listed in the Range Statement. 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 MEA229: Test and Troubleshoot Aircraft Radio Frequency Navigation and Communications 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). <p align="center">226</p>	
Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organisation. <p align="center">OR</p> 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.

Name of Assessed Person:

Registration:

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

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