

Name of Assessed Person:

Registration:

UNIT MEAAVI0018: Inspect, Test and Troubleshoot Aircraft Secondary Radar Systems and Components

1. Inspect Secondary Radar Systems and Components	a. Air Traffic Control (ATC) transponder, Radio altimeter, Distance Measuring Equipment (DME), Doppler navigation system, Airborne collision avoidance system (ACAS), Automatic dependent surveillance-broadcast (ADS-B)	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 system defect reports.
- 1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with maintenance manual.
- 1.3 Visually or physically check secondary radar system components for external signs of defects in accordance with maintenance manual while observing all relevant work health and safety (WHS) requirements.
- 1.4 Identify and report defects in accordance with standard enterprise procedures.

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2. Test or Adjust Secondary Radar Systems and Components	a. Air Traffic Control (ATC) transponder, Radio altimeter, Distance Measuring Equipment (DME), Doppler navigation system, Airborne collision avoidance system (ACAS), Automatic dependent surveillance-broadcast (ADS-B)	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 secondary radar system for evidence of serviceability or malfunction in accordance with maintenance manual while observing WHS requirements relating to ground testing.
- 2.3 Perform required calibration or adjustments to system in accordance with maintenance manual.

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3. Troubleshoot Secondary Radar Systems	a. Air Traffic Control (ATC) transponder, Radio altimeter, Distance Measuring Equipment (DME), Doppler navigation system, Airborne collision avoidance system (ACAS), Automatic dependent surveillance-broadcast (ADS-B)	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, inspection and test results to assist in fault determination.
- 3.2 Troubleshoot to line replacement level using maintenance manual fault diagnosis guides and logic processes.
- 3.3 Obtain required specialist or supervisory advice to assist with the troubleshooting process.
- 3.4 Locate secondary radar system faults and identify and report causes of faults in required maintenance documentation.
- 3.5 Determine requirements for rectification of faults.

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

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Certification of Underpinning Knowledge and Skills to Inspect, Test and Troubleshoot Aircraft Secondary Radar 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) component from each of Group a) 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).

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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).	
246, 293	
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:** _____