

Name of Assessed Person:

Registration:

UNIT MEAAVI0049: Inspect, Test and Troubleshoot Full Authority Digital Engine Control Systems

1. Inspect FADEC systems and components	a. Computers, sensors, interfaces, cockpit controls, data cables and wiring looms that comprise the electronic control system	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 relevant 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 FADEC system 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.

Note: Skills and knowledge for maintaining components other than those listed in the Performance Evidence of this unit, such as spark plugs, ignition units, injectors and fuel control units, are covered by the applicable engine maintenance units (e.g. MEA313 Inspect, test and troubleshoot piston engine systems and components, MEAMEC0013 Inspect, test and troubleshoot gas turbine engine systems and components or MEAMEC0042 Maintain basic light aircraft engines and propellers) and do not apply to this unit.

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2. Test FADEC systems	a. Computers, sensors, interfaces, cockpit controls, data cables and wiring looms that comprise the electronic control system	No. of Entries	1	2	3	
		Tail / Job No.				
		LAME Sign.				
		Date				
		Simulated	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 on FADEC system for evidence of serviceability or malfunction in accordance with maintenance manual.						

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3. Troubleshoot FADEC systems	a. Computers, sensors, interfaces, cockpit controls, data cables and wiring looms that comprise the electronic control system	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
Performance Criteria					
<p>3.1 Use available information from maintenance documentation and inspection and test results to assist in fault determination of identified faults.</p> <p>3.2 Troubleshoot FADEC systems to line replacement level using maintenance manual fault diagnosis guides and logic processes, test sets, downloaded maintenance data and fault-finding charts or similar.</p> <p>3.3 Obtain required specialist or supervisory advice to assist with the troubleshooting process.</p> <p>3.4 Locate FADEC system faults and identify and record causes of faults in required maintenance documentation in accordance with standard enterprise procedures.</p> <p>3.5 Determine requirements for rectification of faults.</p>					

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Certification of Underpinning Knowledge and Skills to Inspect, Test and Troubleshoot Full Authority Digital Engine Control Systems

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) item of each group listed in the assessment conditions a). 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:** _____