

AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEAAVI0039: Modify and Repair Aircraft Component Single Layer Printed Circuit Boards									
		No. of Entries	1	2	2	(1)	3		
1.	a. Capacitors; Resistors; Wires; Semiconductors; Inductors;	Tail / Job No.							
Inspect Single Layer Printed	Transformers; Switches; Connectors; Multi Pin ICS; Terminal Posts	LAME Sign.							
Circuit Boards and Associated	and Heat-Sink Materials and Will Include Electrostatic Sensitive Devices	Date							
Components	Devices	Simulated	Yes No	Yes	No	Yes	No		

#### Performance Criteria:

- 1.1 Interpret required maintenance documentation, including component defect reports, and match parts and serial numbers.
- 1.2 Prepare work area and circuit board assemblies in accordance with standard enterprise procedures to allow for detailed inspection of all substrate, circuit tracks, edge connectors and attached components, taking into account any static discharge procedures.
- 1.3 Visually or physically inspect circuit board assemblies for physical integrity of substrate, circuit tracks, edge connectors and attached components in accordance with maintenance documentation while observing all relevant work health and safety (WHS) requirements.
- 1.4 Establish modification status to assist in determining repair requirements.
- 1.5 Identify and report defects in accordance with standard enterprise procedures.

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		No. of Entries	1	2		3	į.		
Z.	a. Capacitors; Resistors; Wires; Semiconductors; Inductors;	Tail / Job No.							
Test or Adjust Single Layer Printed Circuit Boards and	Transformers; Switches; Connectors; Multi Pin ICS; Terminal Posts	LAME Sign.							
Associated Components	and Heat-Sink Materials and Will Include Electrostatic Sensitive Devices	Date							
Associated Components	DEVICES	Simulated	Yes No	Yes	No	Yes	No		

#### **Performance Criteria:**

- 1.1 Interpret required maintenance documentation, including component defect reports, and match parts and serial numbers.
- 1.2 Prepare work area and circuit board assemblies in accordance with standard enterprise procedures to allow for detailed inspection of all substrate, circuit tracks, edge connectors and attached components, taking into account any static discharge procedures.
- 1.3 Visually or physically inspect circuit board assemblies for physical integrity of substrate, circuit tracks, edge connectors and attached components in accordance with maintenance documentation while observing all relevant work health and safety (WHS) requirements.
- 1.4 Establish modification status to assist in determining repair requirements.
- 1.5 Identify and report defects in accordance with standard enterprise procedures.

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		No. of Entries	1	2		3	;		
3.	a. Capacitors; Resistors; Wires; Semiconductors; Inductors;	Tail / Job No.							
Troubleshoot Single Layer Printed Circuit Boards and	Transformers; Switches; Connectors; Multi Pin ICS; Terminal Posts and Heat-Sink Materials and Will Include Electrostatic Sensitive	LAME Sign.							
Associated Components	Devices	Date							
Associated Components	Devices	Simulated	Yes No	Yes	No	Yes	No		

### **Performance Criteria:**

- 3.1 Use required maintenance documentation, physical inspection and test results to assist in fault determination.
- 3.2 Troubleshoot using maintenance manual fault diagnosis guides, logical processes and test equipment.
- 3.3 Locate component faults and identify and record causes of faults in required maintenance documentation.
- 3.4 Determine required for rectification of faults.

<sup>\*\*</sup> Note: Troubleshooting: involves the use of fault finding charts or similar, to line replacement level.



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		No. of Entries	1		2	3	3		
4.	a. Capacitors; Resistors; Wires; Semiconductors; Inductors;	Tail / Job No.							
Dismantle Single Layer Printed Circuit Boards and	Transformers; Switches; Connectors; Multi Pin ICS; Terminal Posts and Heat-Sink Materials and Will Include Electrostatic Sensitive	LAME Sign.							
Associated Components	Devices	Date							
Associated components	Devices	Simulated	Yes No	Ye	'es No	Yes	No		

#### **Performance Criteria:**

- 4.1 Remove conformal or protective coatings from the circuit board assembly to the extent required to effect necessary repairs and in accordance with maintenance manuals and industry or enterprise standards as applicable.
- 4.2 Observe WHS requirements at all times during maintenance procedures and use required material safety data sheets (MSDS) and personal protective equipment (PPE).
- 4.3 Dismantle circuit board assembly to the extent necessary to allow repair of all identified faults.
- 4.4 Tag and dispatch parts for processing in accordance with specified procedures.
- 4.5 Package and store parts for retention and refitment in accordance with standard enterprise procedures to avoid physical and electrostatic damage.
- 4.6 Pack and process parts for disposal in accordance with statutory requirements pertaining to dangerous goods.

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_		No. of Entries	1		2		3	3	
5.	a. Capacitors; Resistors; Wires; Semiconductors; Inductors;	Tail / Job No.							
Assemble Single Layer Printed Circuit Boards and Associated									
Components	and Heat-Sink Materials and Will Include Electrostatic Sensitive Devices	Date							
Components	Devices	Simulated	Yes	No	Yes	No	Yes	No	

#### **Performance Criteria:**

- 5.1 Collect parts removed for access and replacement parts, ensuring appropriate modification status, component tolerances and assembly configuration is maintained.
- 5.2 Assemble printed circuit board and associated components in accordance with maintenance manuals, and ensure all electrical joints meet the required standard of the equipment manufacturer or industry standard.
- 5.3 Rework circuit substrate material, circuit tracks, edge connectors and through-hole eyelets as required to restore printed circuit board to a serviceable condition.
- 5.4 Replace removed conformal or protective coatings to the required standard of the equipment manufacturer or industry standard.
- 5.5 Ensure rework techniques are in accordance with industry approval procedures, observe required WHS precautions and use required MSDS and PPE.



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# Certification of Underpinning Knowledge and Skills to Modify / Repair Aircraft Component Single Layer Printed Circuit Boards

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	ne following pre-requisite units	of competency (as they are related	t d
to attainment of the elements of competency specif	ied in this unit).		
	,		
	296, AVI0038		
Evidence has been confirmed of the knowledge requ	irements for this unit as deliver	red by a CASR 147 Approved	
Organisation.			
	OR		
Assessment has been conducted to determine that t	he underpinning knowledge an	d skills have been achieved in	
accordance with the Competency Unit.			
Certification of Unit Completion			
I certify that I have reviewed the certification of the e	lements for this competency ur	nit and that all of the competency ເ	unit requirements have been met.
Signed:	Assessor No.	MTO:	Date: