

Name of Assessed Person:

Registration:

UNIT MEAAVI0043: Terminate and Repair Aircraft Optical Fibre Cable		No. of Entries	1	2	3
1. Prepare to terminate or repair aircraft optical fibre cable	a. Termination of optical fibre cable using a range of connector types	Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
	b. Repair of optical fibre cable	Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
<b>Performance Criteria:</b>					
1.1 Isolate system and confirm optical source is not transmitting.					
1.2 Confirm requirement to terminate or replace an existing termination from maintenance data.					
1.3 Inspect cable to identify extent of damage.					
1.4 Assemble equipment required for compliance with work health and safety (WHS) requirements and required personal protective equipment (PPE), and ensure PPE is worn during termination and/or repair activities.					
1.5 Assemble required tools, optical connectors, materials and test equipment ready for use.					

Relevant specifications and maintenance data include:

- ARINC Specification 801 Fibre Optic Connectors
- ARINC Specification 802 Fibre Optic Cables
- ARINC Specification 805 Fibre Optic Test Procedures
- ARINC Specification 806 Fibre Optic Installation and Maintenance Procedures
- CASA AC21-99 Aircraft Wiring and Bonding, Section 2 Chapter 19

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<b>2. Terminate aircraft optical fibre cable</b>	a. Termination of optical fibre cable using a range of connector types	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Repair of optical fibre cable	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

**Performance Criteria:**

- 2.1 Prepare optical fibre cable for termination in accordance with maintenance data or manufacturer's instructions.
- 2.2 Fit specified optical connector in accordance with maintenance data or manufacturer's instructions.

Relevant specifications and maintenance data include:

- ARINC Specification 801 Fibre Optic Connectors
- ARINC Specification 802 Fibre Optic Cables
- ARINC Specification 805 Fibre Optic Test Procedures
- ARINC Specification 806 Fibre Optic Installation and Maintenance Procedures
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3. Repair aircraft optical fibre cable	a. Termination of optical fibre cable using a range of connector types	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Repair of optical fibre cable	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

**Performance Criteria:**

- 3.1 Confirm extent of damage to optical fibre cable and assess for repair or for cable replacement.
- 3.2 Determine repair method from maintenance data for damage within specified limits.
- 3.3 Perform repair, including splicing, in accordance with repair method while observing all applicable WHS requirements.

Relevant specifications and maintenance data include:

- ARINC Specification 801 Fibre Optic Connectors
- ARINC Specification 802 Fibre Optic Cables
- ARINC Specification 805 Fibre Optic Test Procedures
- ARINC Specification 806 Fibre Optic Installation and Maintenance Procedures
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<b>4. Remove fibre hazards from work area</b>	a. Termination of optical fibre cable using a range of connector types	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Repair of optical fibre cable	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

**Performance Criteria:**

4.1 Clean work area and pack and dispose of all waste materials in accordance with WHS requirements and standard enterprise procedures.

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5. Test terminated and/or repaired optical fibre cable	a. Termination of optical fibre cable using a range of connector types	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
	b. Repair of optical fibre cable	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
<b>Performance Criteria:</b>							
5.1 Test terminated or repaired fibre optic cable for loss and strength of light transmission in accordance with maintenance data or manufacturer's Specifications.							
5.2 Connect optical fibre cable to light transmitter and optical receiver in accordance with manufacturer's specifications.							

Relevant specifications and maintenance data include:

- ARINC Specification 801 Fibre Optic Connectors
- ARINC Specification 802 Fibre Optic Cables
- ARINC Specification 805 Fibre Optic Test Procedures
- ARINC Specification 806 Fibre Optic Installation and Maintenance Procedures
- CASA AC21-99 Aircraft Wiring and Bonding, Section 2 Chapter 19

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**Registration:** \_\_\_\_\_

**Certification of Underpinning Knowledge and Skills to Terminate and Repair Aircraft Fibre Cable**

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 representative range of tasks, including at least one (1) component from each of Groups a) to b). 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).  <p style="text-align: center;"><b>Nil</b></p>	
Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organisation.  <p style="text-align: center;"><b>OR</b></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.

**Signed:** \_\_\_\_\_ **Assessor No.** \_\_\_\_\_ **MTO:** \_\_\_\_\_ **Date:** \_\_\_\_\_