

**Name of Assessed Person:**

**Registration:**

UNIT MEA365: Assess structural repair/modification requirements and evaluate structural repairs and modifications							
<b>1. Assess structural repair or modification requirements.</b>	a. Standard practices for structural repair and modification, including damage measurement and assessment against approved repair schemes	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
	b. The process for referral of damage details and modification requirements to relevant personnel/authorities	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
	c. Supervision of repair scheme and modification incorporation, including evaluation of work against drawings and specifications	No. of Entries	1	2	3		
		Tail / Job No.					
		LAME Sign.					
		Date					
		Simulated	Yes	No	Yes	No	Yes
	d. Scheduled or unscheduled maintenance	No. of Entries	1	2	3		
		Tail / Job No.					
LAME Sign.							
Date							
Simulated		Yes	No	Yes	No	Yes	No
<b>Performance Criteria:</b>							
1.1 Structural repair requirements are determined from maintenance manuals or approved repair schemes.							
1.2 Damage beyond repair scheme limits is referred to relevant personnel/authorities.							
1.3 Modification requirements are determined from approved drawings and specifications/ instructions or requirements are referred to relevant personnel/authorities.							
1.4 Completed work is evaluated for compliance with airworthiness requirements.							

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<p><b>1. Cont'd</b> <b>Assess structural repair or modification requirements.</b></p>	<p>e. Individual activities or supervision of other personnel performing maintenance tasks classified in CASR part 145 as specialist maintenance, including:</p> <ul style="list-style-type: none"> <li>•non-destructive inspection</li> <li>•welding</li> <li>•surface plating</li> <li>•surface finishing</li> <li>•preparing structural repair components</li> <li>•machining</li> </ul>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

**Performance Criteria:**

- 1.1 Structural repair requirements are determined from maintenance manuals or approved repair schemes.
- 1.2 Damage beyond repair scheme limits is referred to relevant personnel/authorities.
- 1.3 Modification requirements are determined from approved drawings and specifications/ instructions or requirements are referred to relevant personnel/authorities.
- 1.4 Completed work is evaluated for compliance with airworthiness requirements.

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<b>2. Perform colour contrast dye penetrant NDT.</b>	a. Surface preparation for dye penetrant NDT includes: <ul style="list-style-type: none"> <li>• Removal of surface finishes where applicable</li> <li>• Thorough cleaning of the surface</li> <li>• Drying of the surface</li> <li>• Processes included in standard procedures</li> </ul>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
	b. Dye penetrant materials include: <ul style="list-style-type: none"> <li>• Appropriate surface cleaning materials</li> <li>• Emulsifiers</li> <li>• Developers</li> <li>• Materials for surface cleaning after testing</li> </ul>	Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

**Performance Criteria:**

- 2.1 Inspection requirements are identified from relevant maintenance data or to confirm a visually identified defect.
- 2.2 Surfaces to be inspected are prepared for the dye penetrant process.
- 2.3 Dye penetrant materials are selected in accordance with standard operating procedures.
- 2.4 Penetrant test is performed in accordance with standard operating procedures and while observing all relevant work health and safety (WHS) precautions.
- 2.5 Defect indications are checked and identified in accordance with standard operating procedures.
- 2.6 Penetrant testing equipment is correctly maintained and stored while observing all relevant WHS requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE).
- 2.7 Results are recorded in accordance with standard enterprise and regulatory requirements.

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**Certification of Underpinning Knowledge and Skills to Assess structural repair/modification requirements and evaluate structural repairs and modifications**

A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the elements and performance criteria of the unit of competency are being achieved across the tasks and practices listed in the assessment conditions a) to e) that are applicable to the enterprise. 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 Assessment Guidelines).

UNIT MEA365: Assess structural repair/modification requirements and evaluate structural repairs and modifications	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 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:** \_\_\_\_\_