

Name of Assessed Person:

Registration:

UNIT MEASTR0017: Perform Major Disassembly and Reassembly on Aircraft Structure

1. Interpret specifications and organise materials.	a. Assembly of aircraft sub-assemblies or end items from detailed parts using jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Disassembly and reassembly of aircraft structure, such as wings, tailplanes or fuselage sections, using trestling, jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Replacement of major structural load carrying members, for example, skins, longerons, spars, frames and bulkheads	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
Date					
Simulated		Yes No	Yes No	Yes No	

Performance Criteria:

- 1.1 The procedure for assembly / disassembly of structure is determined in order to plan equipment use.
- 1.2 Appropriate jigs, fixtures or bracing methods are selected to ensure maintenance of contour / structural integrity during disassembly / assembly operations.
- 1.3 All components and equipment are organised.

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2. Prepare Aircraft or Sub-Assembly for Structural Disassembly	a. Assembly of aircraft sub-assemblies or end items from detailed parts using jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Disassembly and reassembly of aircraft structure, such as wings, tailplanes or fuselage sections, using trestling, jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Replacement of major structural load carrying members, for example, skins, longerons, spars, frames and bulkheads	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
Date					
Simulated		Yes No	Yes No	Yes No	

Performance Criteria:

- 2.1 Structure is supported and prepared with appropriate jigs, fixtures or bracing as required.
- 2.2 Structural components are removed, as required, to provide access.

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3. Disassemble Aircraft Structure or Sub-Assembly		No. of Entries	1	2	3
		a. Assembly of aircraft sub-assemblies or end items from detailed parts using jigs and fixtures.	Tail / Job No.		
LAME Sign.					
Date					
Simulated	Yes No		Yes No	Yes No	
No. of Entries	1		2	3	
b. Disassembly and reassembly of aircraft structure, such as wings, tailplanes or fuselage sections, using trestling, jigs and fixtures.	Tail / Job No.				
	LAME Sign.				
	Date				
	Simulated	Yes No	Yes No	Yes No	
	No. of Entries	1	2	3	
c. Replacement of major structural load carrying members, for example, skins, longerons, spars, frames and bulkheads	Tail / Job No.				
	LAME Sign.				
	Date				
	Simulated	Yes No	Yes No	Yes No	
	No. of Entries	1	2	3	

Performance Criteria:

- 3.1 Aircraft standard practices are applied to the removal of structural hardware and fasteners while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE).
- 3.2 Disassembled components are tagged to facilitate correct reassembly as required.

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4. Prepare Components and Tooling for Assembly	a. Assembly of aircraft sub-assemblies or end items from detailed parts using jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Disassembly and reassembly of aircraft structure, such as wings, tailplanes or fuselage sections, using trestling, jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Replacement of major structural load carrying members, for example, skins, longerons, spars, frames and bulkheads	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
Date					
Simulated		Yes No	Yes No	Yes No	

Performance Criteria:

- 4.1 Jigs and fixtures are set up to ensure accuracy of component assembly.
- 4.2 Replacement Component alignment is checked for conformance to specifications prior to fastener hole generation.
- 4.3 Hole location/relocation is carried out in accordance with specification procedures and standard practices.
- 4.4 Standard practices are followed in hole generation sequencing to ensure that assembly stress defects are not built in.
- 4.5 Components are disassembled, cleaned, deburred and surface treatments are applied prior to final assembly while observing all relevant WHS requirements, including the use of MSDS and items of PPE.

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5. Assemble Aircraft Structure or Subassembly	a. Assembly of aircraft sub-assemblies or end items from detailed parts using jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Disassembly and reassembly of aircraft structure, such as wings, tailplanes or fuselage sections, using trestling, jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Replacement of major structural load carrying members, for example, skins, longerons, spars, frames and bulkheads	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
Date					
Simulated		Yes No	Yes No	Yes No	

Performance Criteria:

- 5.1 Sealants and/or adhesives are selected and applied in accordance with assembly specifications or appropriate documentation while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 5.2 Components are positioned and secured with appropriate temporary fastening devices for accurate assembly.
- 5.3 Fasteners are selected and installed in accordance with assembly specifications or appropriate manuals.

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6. Inspect Completed Assemblies	a. Assembly of aircraft sub-assemblies or end items from detailed parts using jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Disassembly and reassembly of aircraft structure, such as wings, tailplanes or fuselage sections, using trestling, jigs and fixtures.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Replacement of major structural load carrying members, for example, skins, longerons, spars, frames and bulkheads	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
Date					
Simulated		Yes No	Yes No	Yes No	

Performance Criteria:

- 6.1 Assembled components are inspected to confirm dimensional accuracy and specifications are met.
- 6.2 Checking or testing equipment is used where appropriate to ensure requirements are met.
- 6.3 Aircraft mensuration is checked for compliance with applicable maintenance manuals, where necessary
- 6.4 Required documentation is completed and processed in accordance with standard enterprise procedures.

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Confirmation of Underpinning Knowledge and Skills to Disassemble and Reassemble Aircraft Structure for Major Repair or Modification

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 elements from each of the following Groups a) to f) 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).

UNIT MEASTR0017: Perform Major Disassembly and Reassembly on Aircraft Structure	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;">STR0001</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;">OR</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:** _____

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