

Name of Assessed Person:

Registration:

UNIT MEAMEC0044: Maintain light aircraft air cycle air conditioning systems

1. Inspect light aircraft air cycle air conditioning system	a. Valves and Regulators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers, water separators and humidifiers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Expansion Turbines	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Rigid and flexible pipelines, hoses and fittings	No. of Entries	1	2	3
Tail / Job No.					
LAME Sign.					
Date					
Simulated		Yes No	Yes No	Yes No	

Performance criteria:

- 1.1 Use maintenance documentation and modification status, including system defect reports, where relevant, to identify specific inspection requirements.
- 1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with the applicable maintenance manual.
- 1.3 Visually or physically check air cycle air conditioning system components for external signs of defects in accordance with applicable maintenance manual while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE).
- 1.4 Identify and report defects in accordance with enterprise procedures.

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1. Cont'd. Inspect light aircraft air cycle air conditioning system	e. Ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Temperature sensors, temperature controllers and electrical control circuit wiring/components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance criteria:

- 1.1 Use maintenance documentation and modification status, including system defect reports, where relevant, to identify specific inspection requirements.
- 1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with the applicable maintenance manual.
- 1.3 Visually or physically check air cycle air conditioning system components for external signs of defects in accordance with applicable maintenance manual while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE).
- 1.4 Identify and report defects in accordance with enterprise procedures .

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2. Test and adjust light aircraft air conditioning systems and components	a. Valves and Regulators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers, water separators and humidifiers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Expansion Turbines	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Rigid and flexible pipelines, hoses and fittings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance criteria:

- 2.1 Prepare aircraft and system in accordance with applicable maintenance manual for the application of power or system operation.
- 2.2 Functionally test air cycle air conditioning system in accordance with maintenance manual for evidence of serviceability or malfunction.
- 2.3 Perform system adjustment in accordance with maintenance manual.

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2. Cont'd. Test and adjust light aircraft air conditioning systems and components	e. Ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Temperature sensors, temperature controllers and electrical control circuit wiring/components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance criteria:

- 2.1 Prepare aircraft and system in accordance with applicable maintenance manual for the application of power or system operation.
- 2.2 Functionally test air cycle air conditioning system in accordance with maintenance manual for evidence of serviceability or malfunction.
- 2.3 Perform system adjustment in accordance with maintenance manual.

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3. Troubleshoot light aircraft air cycle air conditioning systems	a. Valves and Regulators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers, water separators and humidifiers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Expansion Turbines	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Rigid and flexible pipelines, hoses and fittings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance criteria:

- 3.1 Use available information from maintenance documentation, inspection and test results, when required, to assist in fault determination.
- 3.2 Use maintenance manual fault diagnosis guides and logic processes to ensure efficient and accurate troubleshooting to line replacement level.
- 3.3 Obtain specialist advice, when required, to assist with the troubleshooting process.
- 3.4 Locate air cycle air conditioning system faults and identify and record the causes of the faults in maintenance documentation, when required, in accordance with standard enterprise procedures.
- 3.5 Determine rectification requirements from maintenance documentation, inspection and test results.

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3. Cont'd. Troubleshoot light aircraft air cycle air conditioning systems	e. Ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Temperature sensors, temperature controllers and electrical control circuit wiring/components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance criteria:

- 3.1 Use available information from maintenance documentation, inspection and test results, when required, to assist in fault determination.
- 3.2 Use maintenance manual fault diagnosis guides and logic processes to ensure efficient and accurate troubleshooting to line replacement level.
- 3.3 Obtain specialist advice, when required, to assist with the troubleshooting process.
- 3.4 Locate air cycle air conditioning system faults and identify and record the causes of the faults in maintenance documentation, when required, in accordance with standard enterprise procedures.
- 3.5 Determine rectification requirements from maintenance documentation, inspection and test results.

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4. Remove and install light aircraft air cycle air conditioning system components	a. Valves and Regulators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers, water separators and humidifiers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Expansion Turbines	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Rigid and flexible pipelines, hoses and fittings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance criteria:

- 4.1 Render system safe in accordance with the applicable maintenance manual and fit isolation tags, when required, to ensure personnel safety.
- 4.2 Carry out air cycle air conditioning system component removal in accordance with the applicable maintenance manual while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 4.3 Complete required maintenance documentation and process in accordance with enterprise procedures.
- 4.4 Tag, seal and pack removed components in accordance with specified procedures.
- 4.5 Check components to be installed to confirm correct part numbers, serviceability and modification status.
- 4.6 Carry out installation in accordance with the applicable maintenance manual.
- 4.7 Complete required maintenance documentation and process in accordance with standard enterprise procedures.

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Registration:

UNIT MEAMEC0044: Maintain light aircraft air cycle air conditioning systems

4 Cont'd. Remove and install light aircraft air cycle air conditioning system components	e. Ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Temperature sensors, temperature controllers and electrical control circuit wiring/components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance criteria:

- 4.1 Render system safe in accordance with the applicable maintenance manual and fit isolation tags, when required, to ensure personnel safety.
- 4.2 Carry out air cycle air conditioning system component removal in accordance with the applicable maintenance manual while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 4.3 Complete required maintenance documentation and process in accordance with enterprise procedures.
- 4.4 Tag, seal and pack removed components in accordance with specified procedures.
- 4.5 Check components to be installed to confirm correct part numbers, serviceability and modification status.
- 4.6 Carry out installation in accordance with the applicable maintenance manual.
- 4.7 Complete required maintenance documentation and process in accordance with standard enterprise procedures.

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Certification of Underpinning Knowledge and Skills to Maintain light aircraft air cycle air conditioning 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) to f). 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 MEAMEC0044: Maintain light aircraft air cycle air conditioning systems	
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). 201 and 246	
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: _____

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Registration:

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