

AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Air	rcraft Va	apour Cycle Air Conditioning Systems							
			No. of Entries	1	L	2	<u>)</u>	3	;
		Defrigeration system compresser condenser receiver druer	Tail / Job No.						
	a.	Refrigeration system compressor, condenser, receiver dryer, thermal expansion valve and evaporator	LAME Sign.						
		thermal expansion valve and evaporator	Date						
		S	Simulated	Yes	No	Yes	No	Yes	No
		b. Magnetic clutch and drive system (belt, power takeoff, electric motor, hydraulic motor or pneumatic as applicable)	No. of Entries	1	L	2	2	3	š
	h		Tail / Job No.						
	D.		LAME Sign.						
			Date						
1.			Simulated	Yes	No	Yes	No	Yes	No
Inspect vapour cycle air conditioning systems			No. of Entries	1	L	2	<u>)</u>	3	š
conditioning systems			Tail / Job No.						
	c.	Condenser extension and retraction system	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No
			No. of Entries	1	L	2)	3	š
			Tail / Job No.						
	d.	Blower	LAME Sign.						
			Date						
			Simulated	Yes	No	Yes	No	Yes	No

- 1.1. Isolation tags already attached to the system or related systems are checked and aircraft/engine configured for safe system inspection and operation in accordance with applicable maintenance manual.
- 1.2. Vapour cycle air conditioning systems are visually or physically checked for external and internal 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 (MSDS) and items of personal protective equipment (PPE).



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Ai	rcraft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
		Tail / Job No.			
1. Cont'd Inspect vapour cycle air conditioning systems		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
		Tail / Job No.			
	f. Temperature control system.	LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 1.1. Isolation tags already attached to the system or related systems are checked and aircraft/engine configured for safe system inspection and operation in accordance with applicable maintenance manual.
- 1.2. Vapour cycle air conditioning systems are visually or physically checked for external and internal 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 (MSDS) and items of personal protective equipment (PPE).

Maintenance. "The upkeep of equipment. Mechanical and electrical equipment must be periodically inspected, to be sure it performs as it was designed and built to perform. When it begins to fail, correct maintenance will usually prevent the problem becoming major."

Maintenance of component parts may include:

- a. Cleaning
- b. Inspection for wear or damage
- c. Adjustment
- d. Lubrication, where applicable

R: 3



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Ai	craft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
	a Defriceration system compresser condenser receiver driver	Tail / Job No.			
	 Refrigeration system compressor, condenser, receiver dryer, thermal expansion valve and evaporator 	LAME Sign.			
	thermal expansion valve and evaporator	Date			
		Simulated	Yes No	Yes No	Yes No
	b. Magnetic clutch and drive system (belt, power takeoff, electric motor, hydraulic motor or pneumatic as applicable)	No. of Entries	1	2	3
		Tail / Job No.			
2. Test vapour cycle air conditioning systems		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Condenser extension and retraction system	No. of Entries	1	2	3
conditioning systems		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
		Tail / Job No.			
	d. Blower	LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

- 2.1 Aircraft and system are correctly prepared in accordance with applicable maintenance manual.
- 2.2 Vapour cycle air conditioning system is tested in accordance with prescribed test procedures to establish serviceability and correct function in accordance with applicable maintenance manual.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Ai	rcraft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
		Tail / Job No.			
2. Cont'd Test vapour cycle air conditioning systems	e. Throttle system shutoff	LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Temperature control system.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

- 2.1 Aircraft and system are correctly prepared in accordance with applicable maintenance manual.
- 2.2 Vapour cycle air conditioning system is tested in accordance with prescribed test procedures to establish serviceability and correct function in accordance with applicable maintenance manual.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Air	craft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
	a Defrigeration system compressor, condensor, receiver dryer	Tail / Job No.			
	 Refrigeration system compressor, condenser, receiver dryer, thermal expansion valve and evaporator 	LAME Sign.			
	thermal expansion valve and evaporator	Date			
	S	Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
		Tail / Job No.			
3. Troubleshoot vapour cycle air conditioning systems	 Magnetic clutch and drive system (belt, power takeoff, electric motor, hydraulic motor or pneumatic as applicable) 	LAME Sign.			
	motor, rigardance motor or pricamatic as applicable,	Date			
		Simulated	Yes No	Yes No	Yes No
	c. Condenser extension and retraction system	No. of Entries	1	2	3
gonario i i i gonario		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
		Tail / Job No.			
	d. Blower	LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guide and logical processes are used to ensure efficient and accurate troubleshooting to line replacement level.
- 3.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 3.4 Vapour cycle air conditioning system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
- 3.5 Fault rectification requirements are determined to assist in planning the repair.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Air	craft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
		Tail / Job No.			
	e. Throttle system shutoff	LAME Sign.			
3. Cont'd Troubleshoot vapour cycle air conditioning systems		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Temperature control system.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

- 3.1 Available information from maintenance documentation and inspection and test results is used, where necessary, to assist in fault determination.
- 3.2 Maintenance manual fault diagnosis guide and logical processes are used to ensure efficient and accurate troubleshooting to line replacement level.
- 3.3 Specialist advice is obtained, where required, to assist with the troubleshooting process.
- 3.4 Vapour cycle air conditioning system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required.
- 3.5 Fault rectification requirements are determined to assist in planning the repair.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Ai	rcraft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
	a Defrigaration system compressor condensor receiver draws	Tail / Job No.			
	a. Refrigeration system compressor, condenser, receiver dryer, thermal expansion valve and evaporator	LAME Sign.			
	thermal expansion valve and evaporator	Date			
		Simulated	Yes No	Yes No	Yes No
	b. Magnetic clutch and drive system (belt, power takeoff, electric motor, hydraulic motor or pneumatic as applicable)	No. of Entries	1	2	3
		Tail / Job No.			
4. Remove vapour cycle air conditioning system		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Condenser extension and retraction system	No. of Entries	1	2	3
components		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
		Tail / Job No.			
	d. Blower	LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

- 4.1 Aircraft and vapour cycle air conditioning system is rendered safe in accordance with the applicable maintenance manual and isolation tags are fitted, where necessary, to ensure the safety of personnel and freedom from damage during component removal.
- 4.2 Where refrigerant evacuation is necessary, evacuation is performed in accordance with regulatory requirements and maintenance manual procedures.
- 4.3 Component removal is carried out in accordance with the applicable maintenance manual while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 4.4 Component is tagged and prepared for transport or storage in accordance with the specified procedures.
- 4.5 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Air	craft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
	[-	Tail / Job No.			
4. Cont'd Remove vapour cycle air conditioning system components	e. Throttle system shutoff	LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Temperature control system.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

- 4.1 Aircraft and vapour cycle air conditioning system is rendered safe in accordance with the applicable maintenance manual and isolation tags are fitted, where necessary, to ensure the safety of personnel and freedom from damage during component removal.
- 4.2 Where refrigerant evacuation is necessary, evacuation is performed in accordance with regulatory requirements and maintenance manual procedures.
- 4.3 Component removal is carried out in accordance with the applicable maintenance manual while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 4.4 Component is tagged and prepared for transport or storage in accordance with the specified procedures.
- 4.5 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures.



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Ai	rcraft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
	a Defrigaration system compressor condensor receiver draws	Tail / Job No.			
	a. Refrigeration system compressor, condenser, receiver dryer, thermal expansion valve and evaporator	LAME Sign.			
	thermal expansion valve and evaporator	Date			
		Simulated	Yes No	Yes No	Yes No
	h. Manustis shutsh and drive such as the late was contained for all attricts	No. of Entries	1	2	3
		Tail / Job No.			
5. Install vapour cycle air conditioning system	 Magnetic clutch and drive system (belt, power takeoff, electric motor, hydraulic motor or pneumatic as applicable) 	LAME Sign.			
	motor, flydraulic motor or phedmatic as applicable)	Date			
		Simulated	Yes No	Yes No	Yes No
	c. Condenser extension and retraction system	No. of Entries	1	2	3
components		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
		No. of Entries	1	2	3
		Tail / Job No.			
	d. Blower	LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 5.1 Component to be installed is checked to confirm correct part or model numbers, modification status and serviceability.
- 5.2 Installation is carried out in accordance with the applicable maintenance manual while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 5.3 Vapour cycle air conditioning system is recharged with refrigerant, where necessary, in accordance with maintenance manual procedures and regulatory requirements.
- 5.4 Vapour cycle air conditioning system is tested for correct function and freedom from refrigerant leaks if system recharging has been performed.
- 5.5 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures.

R: 3



AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEA362: Maintain Ai	rcraft Vapour Cycle Air Conditioning Systems				
		No. of Entries	1	2	3
	e. Throttle system shutoff	Tail / Job No.			
5. Cont'd Install vapour cycle air		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
conditioning system		No. of Entries	1	2	3
components	f. Temperature control system.	Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

- 5.1 Component to be installed is checked to confirm correct part or model numbers, modification status and serviceability.
- 5.2 Installation is carried out in accordance with the applicable maintenance manual while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 5.3 Vapour cycle air conditioning system is recharged with refrigerant, where necessary, in accordance with maintenance manual procedures and regulatory requirements.
- 5.4 Vapour cycle air conditioning system is tested for correct function and freedom from refrigerant leaks if system recharging has been performed.
- 5.5 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures.



UNIT MFA362:

Trade Unit Certification Sheets

AA TT PRO 01a

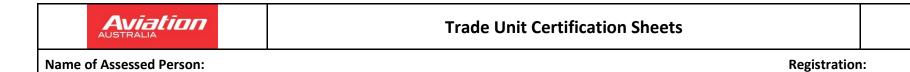
Name of Assessed Person: Registration:

Maintain Aircraft Vapour Cycle Air Conditioning Systems

Certification of Underpinning Knowledge and Skills to Maintain Aircraft Vapour 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 a system and and at least one (1) component in each of the following 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).

•	O .		
Evidence has been confirmed of the attainment of th	e following pre-requisite	units of competency (as they are related	
to attainment of the elements of competency specific	ed in this unit).	, , , , ,	
, , ,	,		
	201 & 246		
	201 & 240		
Files the least of		al' and by a CACD 447 A and and	
Evidence has been confirmed of the knowledge requi	rements for this unit as d	elivered by a CASR 147 Approved	
Organisation.			
	OR		
Assessment has been conducted to determine that the	ne underpinning knowleds	ge and skills have been achieved in	
accordance with the Competency Unit.	, ,		
accordance with the competency critic			
Octobra de la Companya de la Company			
Certification of Unit Completion			
I certify that I have reviewed the certification of the el	ements for this competen	cy unit and that all of the competency i	ınit requirements have been met.
Signed:	Assessor No.	MTO:	Date:



AA TT PRO 01a

This Page Intentionally Left Blank