Name of Assessed Person: **Registration:**

UNIT MEAMEC0061: Repair and Overhaul Aircraft Pneumatic System Components					
1. **Determine Requirements**	a. Valves, pumps, motors, expansion turbines, actuators, regulators, temperature sensors, mechanical pressurisation controllers, temperature controllers and thrust reversers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers and pressure vessels	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Rigid and flexible pipelines, hoses, fittings and ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

1.1 Interpret and match component defect reports (removal tags) or customer order by part and serial numbers.
1.2 Inspect and/or operate pneumatic components through prescribed test procedures to establish serviceability or confirm defects, when required.
1.3 Clearly establish modification status to assist in determining the overhaul requirements for the components.
1.4 Identify and document the extent of overhaul or repair in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAMEC0061: Repair and Overhaul Aircraft Pneumatic System Components					
2. **Troubleshoot Pneumatic Components**	a. Valves, pumps, motors, expansion turbines, actuators, regulators, temperature sensors, mechanical pressurisation controllers, temperature controllers and thrust reversers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers and pressure vessels	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Rigid and flexible pipelines, hoses, fittings and ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

2.1 Use available information from maintenance records and test results, when required.
2.2 Use logical processes to ensure efficient and accurate troubleshooting.
2.3 Obtain specialist advice, when required, to assist with or confirm the fault and rectification requirement.
2.4 Locate pneumatic component faults and clearly identify the causes of the faults.
2.5 Determine fault rectification requirements to assist in planning the repair.

Name of Assessed Person: **Registration:**

UNIT MEAMEC0061: Repair and Overhaul Aircraft Pneumatic System Components					
3. **Dismantle and Inspect Pneumatic Component Parts**	a. Valves, pumps, motors, expansion turbines, actuators, regulators, temperature sensors, mechanical pressurisation controllers, temperature controllers and thrust reversers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers and pressure vessels	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Rigid and flexible pipelines, hoses, fittings and ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

3.1 Dismantle pneumatic component parts in accordance with maintenance manuals 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).
3.2 Assess component parts for serviceability in accordance with the relevant maintenance documentation.
3.3 Tag parts requiring specialist repair and specify repair instructions in accordance with standard enterprise procedures.
3.4 Prepare parts requiring non-destructive testing (NDT) for testing in accordance with the relevant maintenance documentation.
3.5 Compile and process parts lists in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

UNIT MEAMEC0061: Repair and Overhaul Aircraft Pneumatic System Components

4. **Repair and/or modify Pneumatic Components**	a. Valves, pumps, motors, expansion turbines, actuators, regulators, temperature sensors, mechanical pressurisation controllers, temperature controllers and thrust reversers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers and pressure vessels	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Rigid and flexible pipelines, hoses, fittings and ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

4.1 Repair and replace component parts in accordance with the relevant maintenance documentation.
4.2 Modify components or parts, when required, according to manufacturer's bulletins or procedures.

Note:
Repair of component parts may include:
a. Finishing or re-finishing of metal surfaces through processes, such as polishing and lapping.
b. Removal of corrosion within maintenance manual limits.
c. Replacement of seals and backing rings.
d. Replacement of bearings.
e. Application of surface treatments, such as alodining.
f. Restoration of paint finishes.

Name of Assessed Person: **Registration:**

UNIT MEAMEC0061: Repair and Overhaul Aircraft Pneumatic System Components						
5. **Assemble, Test and Adjust Pneumatic Components**	a. Valves, pumps, motors, expansion turbines, actuators, regulators, temperature sensors, mechanical pressurisation controllers, temperature controllers and thrust reversers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Heat exchangers and pressure vessels	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Rigid and flexible pipelines, hoses, fittings and ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

5.1 Assemble pneumatic component parts within specified tolerances and in accordance with the appropriate maintenance documents while observing all relevant WHS requirements, including the use of MSDSs and items of PPE.
5.2 Adjust, test or calibrate components to operate within prescribed specifications, and seek required supervisory guidance for complex testing and adjustments.
5.3 Tag, seal and pack finished components in accordance with standard enterprise procedures.
5.4 Complete required maintenance documentation and modification records and process in accordance with standard enterprise procedures.

Name of Assessed Person: **Registration:**

Certification of Underpinning Knowledge and Skills to Repair and/or Overhaul Aircraft Pneumatic System Components

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 c). 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 MEAMEC0061: Repair and Overhaul Aircraft Pneumatic System Components	
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). **107, 154, 155, 156, 157 & 158**	
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:** _____