

Name of Assessed Person:

Registration:

UNIT MEAMEC0072: Repair and Overhaul Aircraft Piston Engine Cylinder Assembly Components

1. Determine Requirements.	a. Cylinder	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Piston and piston rings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Piston pins	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Valves, valve rockers, valve guides, tappets, pushrods and guard tubes	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 operate cylinder assembly components through prescribed test procedures to establish serviceability and confirm defects, when required.
- 1.3 Establish modification status to assist in determining the overhaul requirements for the components.
- 1.4 Identify extent of overhaul or repair and document in accordance with standard enterprise procedures.

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1. Cont'd. Determine Requirements.	e. Manifold Studs	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 operate cylinder assembly components through prescribed test procedures to establish serviceability and confirm defects, when required.
- 1.3 Establish modification status to assist in determining the overhaul requirements for the components.
- 1.4 Identify extent of overhaul or repair and document in accordance with standard enterprise procedures.

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2. Dismantle and inspect piston engine cylinder assembly components and component parts	a. Cylinder	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Piston and piston rings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Piston pins	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Valves, valve rockers, valve guides, tappets, pushrods and guard tubes	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 2.1 Dismantle cylinder assembly component and component parts in accordance with maintenance manual and/or enterprise procedures while observing relevant work health and safety (WHS) procedures, including the use of material safety data sheets (MSDSs) and personal protective equipment (PPE).
- 2.2 Assess component and component parts for serviceability in accordance with the relevant maintenance documentation.
- 2.3 Tag parts requiring specialist repair and specify repair instructions in accordance with standard enterprise procedures.
- 2.4 Prepare parts requiring non-destructive testing (NDT) for testing in accordance with the relevant maintenance documentation.
- 2.5 Compile and process parts lists in accordance with standard enterprise procedures.

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2. Cont'd. Dismantle and inspect piston engine cylinder assembly components/parts	e. Manifold Studs	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 2.1 Dismantle cylinder assembly component and component parts in accordance with maintenance manual and/or enterprise procedures while observing relevant work health and safety (WHS) procedures, including the use of material safety data sheets (MSDSs) and personal protective equipment (PPE).
- 2.2 Assess component and component parts for serviceability in accordance with the relevant maintenance documentation.
- 2.3 Tag parts requiring specialist repair and specify repair instructions in accordance with standard enterprise procedures.
- 2.4 Prepare parts requiring non-destructive testing (NDT) for testing in accordance with the relevant maintenance documentation.
- 2.5 Compile and process parts lists in accordance with standard enterprise procedures.

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3. Repair, replace or modify piston engine cylinder assembly components or component parts.	a. Cylinder	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Piston and piston rings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Piston pins	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Valves, valve rockers, valve guides, tappets, pushrods and guard tubes	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 3.1 Repair or replace components or component parts in accordance with the relevant maintenance documentation while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 3.2 Modify components or component parts when required according to manufacturer bulletins or procedures, regulatory requirements and/or customer requirements.

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3. Cont'd. Repair and modify piston engine cylinder assembly components or parts.	e. Manifold Studs	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 3.1 Repair or replace components or component parts in accordance with the relevant maintenance documentation while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 3.2 Modify components or component parts when required according to manufacturer bulletins or procedures, regulatory requirements and/or customer requirements.

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4. Assemble, test and adjust piston engine cylinder assembly components.	a. Cylinder	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Piston and piston rings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Piston pins	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Valves, valve rockers, valve guides, tappets, pushrods and guard tubes	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 4.1 Assemble cylinder assembly component parts within specified tolerances and in accordance with the appropriate maintenance documents while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 4.2 Test and adjust components and component parts to operate within prescribed specifications, and seek required supervisory guidance for complex testing and adjustments.
- 4.3 Prepare cylinder assemblies for engine reassembly.
- 4.4 Where components are not to be assembled into an engine, tag, seal and pack the finished components in accordance with standard enterprise procedures.
- 4.5 Complete required maintenance documentation and modification records and process in accordance with standard enterprise procedures.

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4. Cont'd Assemble, test and adjust piston engine cylinder assembly components.	e. Manifold Studs	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 4.1 Assemble cylinder assembly component parts within specified tolerances and in accordance with the appropriate maintenance documents while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 4.2 Test and adjust components and component parts to operate within prescribed specifications, and seek required supervisory guidance for complex testing and adjustments.
- 4.3 Prepare cylinder assemblies for engine reassembly.
- 4.4 Where components are not to be assembled into an engine, tag, seal and pack the finished components in accordance with standard enterprise procedures.
- 4.5 Complete required maintenance documentation and modification records and process in accordance with standard enterprise procedures.

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Certification of Underpinning Knowledge and Skills to Repair and/or Overhaul Aircraft Piston Engine Cylinder Assembly 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 e). 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 MEAMEC0072: Repair and Overhaul Aircraft Piston Engine Cylinder Assembly 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:** _____

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