

Name of Assessed Person:

Registration:

UNIT MEAMEC0073: Repair and Overhaul Aircraft Piston Engine Crankcase Assembly Components

1. Determine requirements.		No. of Entries	1	2	3		
		a. Crankshaft, gears, con rods and counterweights Crankcase castings, bearings, component mounting pads and studs & Oil system components.	Tail / Job No.				
			LAME Sign.				
			Date				
			Simulated	Yes No	Yes No	Yes No	
No. of Entries	1		2	3			
b. Camshaft, hydraulic tappets/cam followers and gears	Tail / Job No.						
	LAME Sign.						
	Date						
	Simulated	Yes No	Yes No	Yes No			
	No. of Entries	1	2	3			
c. Propeller shaft, reduction drive gear and quill shaft	Tail / Job No.						
	LAME Sign.						
	Date						
	Simulated	Yes No	Yes No	Yes No			
	No. of Entries	1	2	3			
d. Component gear drives/trains	Tail / Job No.						
	LAME Sign.						
	Date						
	Simulated	Yes No	Yes No	Yes No			
	No. of Entries	1	2	3			

Performance Criteria:

- 1.1 Interpret and match component defect reports (removal tags) or customer order by part and serial numbers.
- 1.2 Inspected and/or operated crankcase assembly components through prescribed test procedures to establish serviceability and confirm defects, when required, while observing relevant work health and safety (WHS) procedures, including the use of material safety data sheets (MSDSs) and personal protective equipment (PPE).
- 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. Crankcase castings, bearings, component mounting pads and studs	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Oil system components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Supercharger and turbocharger components <i>(may be omitted if not applicable to enterprise)</i>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	h. Propeller governor <i>(may be omitted if not applicable to enterprise)</i>	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 Inspected and/or operated crankcase assembly components through prescribed test procedures to establish serviceability and confirm defects, when required, while observing relevant work health and safety (WHS) procedures, including the use of material safety data sheets (MSDSs) and personal protective equipment (PPE).
- 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 crankcase assembly components or parts.	a. Crankshaft, gears, con rods and counterweights Crankcase castings, bearings, component mounting pads and studs & Oil system components.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Camshaft, hydraulic tappets/cam followers and gears	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Propeller shaft, reduction drive gear and quill shaft	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Component gear drives/trains	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 2.1 Dismantle crankcase assembly component parts in accordance with maintenance manual and/or enterprise procedures while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 2.2 Assess 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 crankcase assembly components/parts.	e. Crankcase castings, bearings, component mounting pads and studs	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Oil system components	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Supercharger and turbocharger components <i>(may be omitted if not applicable to enterprise)</i>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	h. Propeller governor <i>(may be omitted if not applicable to enterprise)</i>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 2.1 Dismantle crankcase assembly component parts in accordance with maintenance manual and/or enterprise procedures while observing relevant WHS procedures, including the use of MSDSs and PPE.
- 2.2 Assess 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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<p>3. Repair and modify piston engine crankcase assembly components or component parts.</p>	<p>a. Crankshaft, gears, con rods and counterweights Crankcase castings, bearings, component mounting pads and studs & Oil system components.</p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>b. Camshaft, hydraulic tappets/cam followers and gears</p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>c. Propeller shaft, reduction drive gear and quill shaft</p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>d. Component gear drives/trains</p>	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 and component parts in accordance with the relevant maintenance documentation.
- 3.2 Modify components and components parts when required by reference to relevant manufacturer’s bulletins or procedures, regulatory requirements and/or customer requirements while observing relevant WHS procedures, including the use of MSDS and PPE.

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<p>3. Cont'd Repair and modify piston engine crankcase assembly components or parts.</p>	<p>e. Crankcase castings, bearings, component mounting pads and studs</p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>f. Oil system components</p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>g. Supercharger and turbocharger components <i>(may be omitted if not applicable to enterprise)</i></p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>h. Propeller governor <i>(may be omitted if not applicable to enterprise)</i></p>	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 and component parts in accordance with the relevant maintenance documentation.
- 3.2 Modify components and components parts when required by reference to relevant manufacturer's bulletins or procedures, regulatory requirements and/or customer requirements while observing relevant WHS procedures, including the use of MSDS and PPE.

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4. Assemble, test and adjust piston engine crankcase assembly components.	a. Crankshaft, gears, con rods and counterweights Crankcase castings, bearings, component mounting pads and studs & Oil system components.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Camshaft, hydraulic tappets/cam followers and gears	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Propeller shaft, reduction drive gear and quill shaft	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Component gear drives/trains	No. of Entries	1	2	3
Tail / Job No.					
LAME Sign.					
Date					
Simulated		Yes No	Yes No	Yes No	

Performance Criteria:

- 4.1 Assemble crankcase 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, adjust or calibrate components to operate within prescribed specifications, and seek required supervisory guidance for complex testing and adjustments.
- 4.3 Prepare crankcase assembly 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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<p>4. Cont'd Assemble, test and adjust piston engine crankcase assembly components.</p>	<p>e. Crankcase castings, bearings, component mounting pads and studs</p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>f. Oil system components</p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>g. Supercharger and turbocharger components <i>(may be omitted if not applicable to enterprise)</i></p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	<p>h. Propeller governor <i>(may be omitted if not applicable to enterprise)</i></p>	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 4.1 Assemble crankcase 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, adjust or calibrate components to operate within prescribed specifications, and seek required supervisory guidance for complex testing and adjustments
- 4.3 Prepare crankcase assembly 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

Name of Assessed Person:

Registration:

Certification of Underpinning Knowledge and Skills to Repair and/or Overhaul Aircraft Piston Engine Crankcase 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 h) that are applicable to the enterprise. **(Groups g and h) may be omitted where they are not Applicable to the Enterprise).** 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).

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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: _____

Name of Assessed Person:

Registration:

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