Title	Repair or overhaul aircraft fixed pitch propeller assemblies		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to: prepare to repair or overhaul aircraft fixed pitch propeller assemblies; locate defects in aircraft fixed pitch propeller assemblies; repair or overhaul aircraft fixed pitch propeller assemblies; test and adjust aircraft fixed pitch propeller assemblies; and complete the repair or overhaul task for aircraft fixed pitch propeller assemblies.
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Classification	Aeronautical Engineering > Aircraft Powerplant Repair and Overhaul
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Available grade Achieved	
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Guidance Information

- 1 All tasks must be carried out in accordance with enterprise procedures.
- 2 Definition

Enterprise procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

- 3 Repair or overhaul activities are those usually carried out in a specialist bay or workshop.
- 4 This unit standard covers aircraft fixed pitch wooden and metal propellers.

Outcomes and performance criteria

Outcome 1

Prepare to repair or overhaul aircraft fixed pitch propeller assemblies.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Propeller identity is confirmed with documentation by comparing serial and part numbers.

- 1.3 Work area is prepared, and resources are obtained and checked.
 - Range may include but is not limited to publications, materials, tools, equipment, safety equipment, environmental conditions established.
- 1.4 Propeller is prepared for repair or overhaul.

Range may include but is not limited to – clean, inspect.

1.5 Next task is determined and documented.

Range may include but is not limited to – locate defects, repair, overhaul, test, adjust, complete the task.

Outcome 2

Locate defects in aircraft fixed pitch propeller assemblies.

Performance criteria

- 2.1 Defects are located using troubleshooting techniques appropriate to the defect indications.
- 2.2 Defects found during troubleshooting are reported and documented.

Outcome 3

Repair or overhaul aircraft fixed pitch propeller assemblies.

Performance criteria

3.1 Propeller is disassembled. Range may include but is not limited to - clean, label, preserve. 3.2 Defects found during disassembly are reported and documented. 3.3 Rectification action is determined and documented. 3.4 Replacement parts are procured and verified as authentic and serviceable. identify, inspect. Range 3.5 Defects are rectified. Range may include but is not limited to – replace parts, modify, blend, scurf, contour, adjust angles and/or dimensions, balance, polish,

straighten bent or twisted blades.

3.6 Propeller is assembled.

3.7 Inspections are obtained.

Outcome 4

Test and adjust aircraft fixed pitch propeller assemblies.

Performance criteria

- 4.1 Propeller is prepared for testing.
- 4.2 Propeller is tested and adjusted.

Range may include but is not limited to – troubleshoot, functionally test, calibrate, adjust, document adjustments and performance.

4.3 Inspections are obtained.

Outcome 5

Complete the repair or overhaul task for aircraft fixed pitch propeller assemblies.

Performance criteria

5.1	Propeller is prepared for use, storage, or transit.	
	Range	may include but is not limited to – locking, inhibiting, blanking, packing.
5.2	Resources a	are checked for serviceability and returned to service or storage.
	Range	may include but is not limited to – tools, equipment, safety equipment, publications.
5.3	Leftover parts and materials are disposed of.	
	Range	may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.
5.4	Documentation is completed.	
5.5	Work area is left in a state that enables the next task to begin.	

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions			
Process	Version	Date	Last Date for Assessment
Registration	1	20 June 1995	31 December 2016
Revision	2	7 August 1997	31 December 2016
Revision	3	8 May 2001	31 December 2016
Review	4	25 September 2006	31 December 2016
Review	5	18 June 2014	31 December 2021
Review	6	26 March 2020	N/A
Rollover and Revision	7	30 May 2024	N/A

Status information and last data for accompant for compared advarciance

Consent and Moderation Requirements (CMR) reference	0028	
This OND say has a second at http://www.amer.newt.am/frame.overdu/amer.html.amer.html		

This CMR can be accessed at <u>http://www.nzqa.govt.nz/framework/search/index.do</u>.

Comments on this unit standard

Please contact Ringa Hora Services Workforce Development Council qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.