

<b>Title</b>	<b>Maintain aircraft fixed pitch or ground adjustable propellers</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to maintain aircraft fixed pitch or ground adjustable propellers; locate defects in aircraft fixed pitch or ground adjustable propellers; restore airworthiness of aircraft fixed pitch or ground adjustable propellers; and complete finishing activities related to maintaining aircraft fixed pitch or ground adjustable propellers.
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<b>Classification</b>	Aeronautical Engineering > Aircraft Powerplant Maintenance
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<b>Available grade</b>	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 The maintenance activities referred to in this unit standard are those normally carried out on an aircraft in a hangar.
- 4 The scope of the system that this standard relates to is described in ATA iSpec 2200, chapter 61.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to maintain aircraft fixed pitch or ground adjustable propellers.

#### Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.

- 1.2 Resources are obtained and checked for serviceability.
- Range may include but are not limited to – publications, tools, equipment, safety equipment, materials.
- 1.3 Aircraft registration and propellers to be maintained are matched with documentation.
- 1.4 Aircraft and propellers are prepared for the application of power and system operation.
- Range may include but is not limited to – cockpit controls match component positions, clearances, isolation tags, warning signs.
- 1.5 Ground and/or support equipment is positioned ready for aircraft propeller maintenance activities.

## Outcome 2

Locate defects in aircraft fixed pitch or ground adjustable propellers.

### Performance criteria

- 2.1 Serviceability is determined.
- Range inspect, assess, test.
- 2.2 Defects are reported and documented.

## Outcome 3

Restore airworthiness of aircraft fixed pitch or ground adjustable propellers.

### Performance criteria

- 3.1 Methods of rectifying defects are determined.
- 3.2 Replacement propeller and/or parts are procured and verified as authentic and serviceable.
- Range identify, inspect.
- 3.3 Propeller defects are rectified.
- Range may include but is not limited to – repair, replace, modify, adjust, dynamically balance.
- 3.4 Propellers are tested to verify serviceability.
- 3.5 Inspections are obtained.

**Outcome 4**

Complete finishing activities related to maintaining aircraft fixed pitch or ground adjustable propellers.

**Performance criteria**

4.1 Completion activities specific to the task and work area are carried out.

Range may include but are not limited to – tool control, cleanliness, tidiness, return of publications, systems and aircraft left ready for next activity.

4.2 Resources are checked for serviceability and returned to service or storage.

Range may include but are not limited to – tools, equipment, safety equipment.

4.3 Leftover parts and materials are disposed of.

Range may include but are not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous, replaced propeller.

4.4 Documentation is completed.

<b>Planned review date</b>	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	25 September 2006	31 December 2016
Review	2	17 July 2014	31 December 2021
Review	3	26 March 2020	N/A
Rollover and Revision	4	30 May 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0028
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

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