

<b>Title</b>	<b>Maintain aircraft variable pitch propellers and propeller systems</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to maintain aircraft variable pitch propellers and propeller systems; locate defects in aircraft variable pitch propellers and propeller systems; restore airworthiness of aircraft variable pitch propellers and propeller systems; and complete finishing activities related to maintaining aircraft variable pitch propellers and propeller systems.
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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 variable pitch propellers and propeller systems.

#### 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 is not limited to – publications, tools, equipment, safety equipment, materials.
- 1.3 Aircraft registration and system to be maintained are matched with documentation.
- 1.4 Aircraft and system 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 and propeller systems maintenance activities.

## **Outcome 2**

Locate defects in aircraft variable pitch propellers and propeller systems.

### **Performance criteria**

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

## **Outcome 3**

Restore airworthiness of aircraft variable pitch propellers and propeller systems.

### **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 Propellers and propeller system defects are rectified.
- Range may include but is not limited to – repair, replace, modify, adjust, dynamically balance.
- 3.4 Propellers and propeller systems are tested to verify serviceability.
- 3.5 Inspections are obtained.

**Outcome 4**

Complete finishing activities related to maintaining aircraft variable pitch propellers and propeller systems.

**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 is not limited to – tools, equipment, safety equipment.
- 4.3 Leftover parts and materials are disposed of.
- Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous, replaced propeller.
- 4.4 Documentation is completed.

<b>Planned review date</b>	31 December 2024
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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	17 July 2014	31 December 2021
Review	6	26 March 2020	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 ServiceIQ [qualifications@serviceiq.org.nz](mailto:qualifications@serviceiq.org.nz) if you wish to suggest changes to the content of this unit standard.