

Title	Maintain aircraft variable pitch propellers and propeller systems		
Level	4	Credits	15

Purpose	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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Classification	Aeronautical Engineering > Aircraft Powerplant Maintenance
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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 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.

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.

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	17 July 2014	31 December 2021
Review	6	26 March 2020	N/A
Rollover and Revision	7	30 May 2024	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.