Title	Test aircraft turbo-prop or turbo-shaft powerplants on a test bed		
Level	5	Credits	24

Purpose	People credited with this unit standard are able to: prepare aircraft turbo-prop or turbo-shaft powerplants for testing on a test bed; test aircraft turbo-prop or turbo-shaft powerplants; and complete finishing activities related to the testing tasks.

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 This unit standard can be assessed against using a fixed or a mobile test cell.
- 4 Evidence for performance criterion 2.5 may be gathered under simulated conditions.

Outcomes and performance criteria

Outcome 1

Prepare aircraft turbo-prop or turbo-shaft powerplants for testing on a test bed.

Performance criteria

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

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1.3 Work area is prepared, and resources are obtained and checked for serviceability.

Range may include but is not limited to – publications, materials, tools, test

equipment, safety equipment, environmental conditions

determined.

1.4 Powerplant is prepared for testing.

Range may include but is not limited to – clean, inspect, install on test

bed.

Outcome 2

Test aircraft turbo-prop or turbo-shaft powerplants.

Performance criteria

2.1 Powerplant is tested and adjusted.

Range may include but is not limited to – record data, evaluate data,

determine adjustments, troubleshoot, functionally test, calibrate,

adjust, document adjustments and performance.

2.2 Defects found during testing are reported and recorded.

Range may include but is not limited to – vibrations, out of limits

performance parameters, leaks.

2.3 Defects are rectified.

Range may include but is not limited to – vibrations, out of limits

performance parameters, leaks.

- 2.4 Inspections are obtained.
- 2.5 Action to be taken in abnormal and emergency occurrences is demonstrated.

Outcome 3

Complete finishing activities related to the testing tasks.

Performance criteria

3.1 Powerplant is prepared for use, storage, or transit.

Range may include but is not limited to – lock, inhibit, blank, remove from

test bed, prepare for transit.

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

Range may include but is not limited to – tool control, cleanliness,

tidiness, return of publications, preparation for next activity.

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

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

equipment.

3.4 Leftover parts and materials are disposed of.

Range may include but is not limited to – serviceable, unserviceable,

surplus, waste, scrap, hazardous.

3.5 Documentation is completed.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

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Process	Version	Date	Last Date for Assessment
Registration	1	25 September 2006	31 December 2016
Review	2	18 June 2014	31 December 2021
Review	3	26 March 2020	N/A
Rollover and Revision	4	30 May 2024	N/A

Consent and Moderation Requirements (CMR) reference	0028
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This CMR can be accessed at http://www.nzga.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.