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| Title | Install, operate, and remove aircraft powerplants from a test bed | | |
| Level | 4 | Credits | 8 |

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| Purpose | People credited with this unit standard are able to: prepare aircraft powerplants for operation on a test bed; test aircraft powerplants; and remove aircraft powerplants from a test bed and complete finishing activities related to the testing tasks. |
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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 All powerplant run tasks are to be carried out under the control of an authorised powerplant runner.
- 4 This unit standard can be assessed against using a fixed or a mobile test cell.
- 5 Credit for this unit standard may also be gained from tasks assessed on aero-derivative engines, and associated systems and components used for marine or industrial applications.

Outcomes and performance criteria

Outcome 1

Prepare aircraft powerplants for operation 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.
- 1.3 Work area is prepared, 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 Test equipment is set up.

Outcome 2

Test aircraft powerplants.

Performance criteria

- 2.1 Powerplant is installed on a test bed.
- 2.2 Powerplant run is carried out under the control of an authorised powerplant runner.
- 2.3 Adjustments are made as directed by authorised personnel.
- 2.4 Maintenance is carried out as directed by authorised personnel.
- 2.5 Inspections are obtained.

Outcome 3

Remove aircraft powerplants from a test bed and complete finishing activities related to the testing tasks.

Performance criteria

- 3.1 Powerplant is removed from test bed.
- 3.2 Inspections are obtained.
- 3.3 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.
- 3.4 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.

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

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

3.6 Leftover parts and materials are disposed of.

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

3.7 Documentation is completed.

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| Replacement information | This unit standard, unit standard 20635, unit standard 20636, and unit standard 20637 replaced unit standard 3425. |
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| Planned review date | 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 | 25 September 2006 | 31 December 2016 |
| Review | 2 | 18 June 2014 | 31 December 2021 |
| Review | 3 | 26 March 2020 | N/A |

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| 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 ServicelQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.