

Title	Ground run turbo-jet or turbo-fan aircraft engines		
Level	5	Credits	10

Purpose	People credited with this unit standard are able to: prepare to ground run turbo-jet or turbo-fan aircraft engines; carry out engine ground run; and complete activities related to the ground run task.
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Classification	Aeronautical Engineering > Aircraft Servicing
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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 Definitions
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.
FOD – foreign object debris which is anything that can find its way into an aircraft engine or flight control mechanisms that could possibly cause damage to aircraft, equipment, or people.
- 3 Approval to ground run specific aircraft and engine types is obtained from the enterprise responsible for maintaining the engine.
- 4 This unit standard covers generic procedures for ground running aircraft engines.
- 5 Turbo-jet or turbo-fan aircraft engines include single and/or multi engine, e.g. Soko Galeb, Citation, Boeing 757, Boeing 777.
- 6 The scope of the system that this standard relates to is described in the applicable chapters of ATA iSpec 2200.

Outcomes and performance criteria

Outcome 1

Prepare to ground run turbo-jet or turbo-fan aircraft engines.

Performance criteria

- 1.1 Ground run task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Resources are obtained and checked for serviceability or status.
- Range may include but is not limited to – publications, tools, equipment, safety equipment, materials.
- 1.3 Aircraft registration is matched with documentation.
- 1.4 Aircraft is prepared for engine start.
- Range may include but is not limited to – fuel load and location; blanks, locks, chocks, covers, screens; special equipment and safety equipment removed, fitted and positioned as necessary; engine start equipment and aircraft positioned in approved area, area checked for FOD before starting.
- 1.5 Environmental data is obtained.
- Range may include but is not limited to – barometric pressure, outside air temperature, wind speed and direction, humidity.
- 1.6 Ground run team is assembled and positioned.

Outcome 2

Carry out engine ground run.

Performance criteria

- 2.1 Engine start and ground run clearances are obtained.
- Range from ground crew and/or from control tower.
- 2.2 Engine or engines are started, run, and shut down to meet the determined task requirements or specifications.
- 2.3 Engine performance parameters are recorded.
- 2.4 Post ground run checks are completed.

Outcome 3

Complete activities related to the ground run task.

Performance criteria

- 3.1 Aircraft is prepared for next maintenance task or for operation.

- 3.2 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, 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 Ground run documentation is completed.

Replacement information	This unit standard, unit standard 23165, and unit standard 23166, replaced unit standard 3905.
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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

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