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| Title | Ground run helicopters | | |
| Level | 5 | Credits | 10 |

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| Purpose | People credited with this unit standard are able to: prepare to ground run helicopters; carry out a helicopter ground run; and complete the ground run task. |
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| Classification | Aeronautical Engineering > Helicopter 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 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 a helicopter engine or flight control mechanisms that could possibly cause damage to helicopter, equipment or people.
- 3 The range of helicopters include single or multiple, piston or turbine engines.
- 4 This unit standard covers generic procedures for ground running helicopters, either tethered or untethered, with rotors turning.
- 5 Approval to ground run specific helicopter types is obtained from the enterprise responsible for maintaining the helicopter.

Outcomes and performance criteria

Outcome 1

Prepare to ground run helicopters.

Performance criteria

- 1.1 Ground run task is determined by reviewing maintenance documentation.
- 1.2 Tools, materials, equipment, and publications are obtained and checked for serviceability or status.

1.3 Helicopter registration is matched with documentation.

1.4 Helicopter is prepared for engine start.

Range fuel load and location; blanks, locks, chocks, covers, screens, ground tethers; special equipment and safety equipment removed, fitted and positioned as necessary; engine start equipment and helicopter positioned in approved area; within wind speed and direction limits; area checked for FOD before starting.

1.5 Environmental data is obtained.

Range barometric pressure, outside air temperature, wind speed and direction, humidity.

1.6 Ground run team is assembled, briefed and positioned.

Outcome 2

Carry out a helicopter ground run.

Performance criteria

2.1 Engine start and ground run clearances are obtained.

Range clearances include – ground crew, control tower.

2.2 Helicopter is ground run to meet the determined task requirements or specifications.

Range engine/s are started, run, shut down; rotors engaged and disengaged.

2.3 Helicopter performance parameters are recorded.

2.4 Post ground run checks are completed.

Outcome 3

Complete the ground run task.

Performance criteria

3.1 Helicopter is prepared for next maintenance task or for operation.

3.2 Tools, equipment, publications, and materials are checked and returned or disposed of.

3.3 Ground run documentation is completed.

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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 | 20 June 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 ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.