

<b>Title</b>	<b>Demonstrate flying skills for a private pilot licence (rotary)</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are, for a private pilot's licence (rotary), able to demonstrate: general knowledge for a helicopter flight test; pre-flight checks and procedures for a helicopter; helicopter take-off procedures; in-flight competence; emergency flying procedures; landing procedures; join and circuiting procedures; and post-flight procedures.
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<b>Classification</b>	Aviation > Aircraft Operation
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 The test flight covered by this unit standard is to be demonstrated in accordance with the Civil Aviation Rules Part 61 and 91, and other relevant rules, published by the Civil Aviation Authority of New Zealand (CAA), PO Box 3555, Wellington 6140, and their subsequent amendments.
- 2 This unit standard is aligned with the relevant parts of the prescribed syllabi of the CAA, for a private pilot licence. Credit will be awarded on meeting the requirements of the CAA approved assessment or examination.
- 3 *Confined area* refers to an area with a diameter equal to three times the helicopter length.
- 4 Definitions, abbreviations, and acronyms used in this unit standard are to be found in:
  - a *Civil Aviation Rules Part 1* on the CAA website at <https://www.caa.govt.nz>, and
  - b *Aeronautical Information Publication (AIP)* published by Aeronautical Information Management (AIM), PO Box 294, Wellington 6140 or on the AIM website at <http://www.aip.net.nz>.
- 5 All references to the CAA refer specifically to the Civil Aviation Authority of New Zealand.
- 6 Industry standards and recommended practices are those set in place by the CAA.
- 7 Industry texts may include but are not limited to – helicopter flight manuals, CAA Rules, CAA Advisory Circulars, NZCAA Flight Test Standard Guides, operator exposition.

- 8 Industry requirements are that the candidate must meet the eligibility requirements of the Civil Aviation Act 1990 and the Civil Aviation Rule Part 61 for a private pilot licence.

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## **Outcomes and performance criteria**

### **Outcome 1**

Demonstrate general knowledge for a helicopter flight test.

#### **Performance criteria**

- 1.1 Aircraft documents are described in accordance with industry texts and standards.
- 1.2 Helicopter performance and operating requirements are described in accordance with the helicopter flight manual and industry standards.
- 1.3 Fuel requirements and management are described in accordance with the helicopter flight manual and industry standards.
- 1.4 Helicopter loading is described in accordance with the helicopter flight manual and industry standards.
- 1.5 Location, use, and operation of emergency equipment are described in accordance with the helicopter flight manual and industry standards.
- 1.6 Emergency procedures and hazard avoidance are described in accordance with the helicopter flight manual and industry standards.
- 1.7 Weather data, NOTAMs, and AIPNZ supplements are obtained and correctly interpreted in accordance with industry texts and standards.
- 1.8 Licence privileges are described in accordance with industry texts and standards.

### **Outcome 2**

Demonstrate pre-flight checks and procedures for a helicopter.

#### **Performance criteria**

- 2.1 Pre-flight checks are demonstrated in accordance with industry texts and standards.
- 2.2 Engine start, warm-up, clutch engagement, and run-up procedures are demonstrated in accordance with the helicopter flight manual and industry standards.
- 2.3 Air traffic service procedure is demonstrated in accordance with AIPNZ and CAA rules.

- 2.4 Pre-lift-off checks are demonstrated in accordance with the helicopter flight manual and industry standards.

### **Outcome 3**

Demonstrate helicopter take-off procedures.

#### **Performance criteria**

- 3.1 Lift-off to hover is demonstrated in accordance with the helicopter flight manual and industry standards.
- 3.2 Hover taxiing is demonstrated in accordance with the helicopter flight manual and industry standards.
- 3.3 Constant heading pattern is demonstrated in accordance with the helicopter flight manual and industry standards.
- 3.4 Hover turns are demonstrated in accordance with helicopter flight manual and industry standards.
- 3.5 Normal take-off is demonstrated in accordance with the helicopter flight manual and industry standards.
- 3.6 Crosswind take-off is demonstrated in accordance with the helicopter flight manual and industry standards.
- 3.7 Limited power (cushion creep) take-off is demonstrated in accordance with the helicopter flight manual and industry standards.
- 3.8 Limited power (running) take-off is demonstrated in accordance with the helicopter flight manual and industry standards.
- 3.9 Towering take-off is demonstrated in accordance with the helicopter flight manual and industry standards.

### **Outcome 4**

Demonstrate in-flight competence.

#### **Performance criteria**

- 4.1 Climbing of the helicopter is demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.2 Straight and level flying of the helicopter is demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.3 Medium turns are demonstrated in accordance with the helicopter flight manual and industry standards.

- 4.4 Steep turns are demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.5 Magnetic compass headings are demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.6 Quick stops are demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.7 Low flying is demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.8 Mountainous terrain awareness is demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.9 Slope operations are demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.10 Confined area operations are demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.11 Descent of the helicopter is demonstrated in accordance with the helicopter flight manual and industry standards.
- 4.12 Radiotelephony tuning and procedures are demonstrated in accordance with industry texts and standards.
- 4.13 Look-out and general airmanship are demonstrated in accordance with industry texts and standards.

## **Outcome 5**

Demonstrate emergency flying procedures.

### **Performance criteria**

- 5.1 Straight-in autorotation is demonstrated in accordance with the helicopter flight manual and industry standards.
- 5.2 180 degree rotation is demonstrated in accordance with the helicopter flight manual and industry standards.
- 5.3 Engine failure in the hover is demonstrated in accordance with the helicopter flight manual and industry standards.
- 5.4 Emergency procedures and hazard avoidance are demonstrated in accordance with the helicopter flight manual and industry standards.

## **Outcome 6**

Demonstrate landing procedures.

**Performance criteria**

- 6.1 Limited power (running) landing is demonstrated in accordance with the helicopter flight manual and industry standards.
- 6.2 Zero speed landing is demonstrated in accordance with the helicopter flight manual and industry standards.
- 6.3 Steep approach is demonstrated in accordance with the helicopter flight manual and industry standards.

**Outcome 7**

Demonstrate join and circuiting procedures.

**Performance criteria**

- 7.1 Joining the circuit is demonstrated in accordance with the helicopter flight manual and industry standards.
- 7.2 Normal circuit, approach, and landing are demonstrated in accordance with the helicopter flight manual and industry standards.
- 7.3 Go-round is demonstrated in accordance with the helicopter flight manual and industry standards.

**Outcome 8**

Demonstrate post-flight procedures.

**Performance criteria**

- 8.1 Post-flight procedures are demonstrated in accordance with the helicopter flight manual and industry standards.

Range may include but is not limited to – engine shut down, secure helicopter, complete documentation, terminate flight plan, terminate SAR watch.

<b>Planned review date</b>	31 December 2028
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	26 March 2007	31 December 2018
Review	2	20 October 2016	31 December 2027
Review	3	28 September 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0028
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Comments on this unit standard

Please contact Ringa Hora Services Workforce Development Council [qualifications@ringahora.nz](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.