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| <b>Title</b> | <b>Demonstrate eligibility for aerobatic flight</b> |                |          |
| <b>Level</b> | <b>5</b>  | <b>Credits</b> | <b>8</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to demonstrate: knowledge and skills of aerobatic flight. |
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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 flying covered by this unit standard must 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, available at <http://www.caa.govt.nz/rules/rules.htm>, and their subsequent amendments.
- 2 This unit standard is aligned with the relevant parts of the prescribed syllabi of the CAA for a pilot licence (aeroplane). Credit will be awarded on meeting the requirements of the CAA-approved assessment or examination.
- 3 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>.
- 4 Evidence presented for assessment against this unit standard must be in accordance with industry texts and standards.
- 5 Aircraft, equipment, and facilities required for the flight test must be in accordance with the requirements of CAA Advisory Circular 61-12.
- 6 All references to the CAA refer specifically to the Civil Aviation Authority of New Zealand.
- 7 Industry standards and recommended practices are those set in place by the CAA.
- 8 Industry texts may include but are not limited to – aircraft flight manuals, CAA Rules, CAA Advisory Circulars, CAA Flight Test Standards Guides, operator exposition, New Zealand Defence Force (NZDF) Policy.

- 9 Industry requirements are that the candidate must meet the eligibility requirements of the Civil Aviation Act 2023 and the Civil Aviation Rules Part 61 for a commercial pilot licence.
- 10 In accordance with the provisions of Civil Aviation Rule Part 61 for Pilot Licences and Ratings and the associated Advisory Circulars, the CAA accepts specific NZDF flight crew qualifications and associated flight experience towards a number of the prescribed eligibility requirements for the issue of a New Zealand pilot licence and associated ratings.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of aerobatic flight.

#### Performance criteria

- 1.1 Civil Aviation Rules relevant to aerobatic flying are explained.
- Range may include but is not limited to – CAR 91.701, CAR 91.703.
- 1.2 Airframe and aerodynamics are explained.
- Range may include but is not limited to – weight, centre of gravity, accelerometer, operational envelope, angle of attack and drag, dynamic stall, airspeed, high and low speed flight, energy management.
- 1.3 Engine and mechanical limitations are explained.
- 1.4 Flight controls limitations and effects are explained.
- Range may include but is not limited to – ailerons and elevator, rudder, throttle, slipstream, torque.
- 1.5 Human factors affecting aerobatic flight are explained.
- Range may include but is not limited to – physiological limitations, causes of nausea, visual illusion, disorientation and loss of horizon.
- 1.6 Airmanship factors relating to aerobatic flight are explained.
- Range may include but is not limited to – prior to flight, in flight, emergency procedures.
- 1.7 Post flight evaluation for aerobatic flight is explained.

1.8 Pilot maintenance for aerobatic flight is explained.

Range may include but is not limited to – abilities and restrictions in accordance with Part 43.

## Outcome 2

Demonstrate skills of aerobatic flight.

### Performance criteria

2.1 Aerobatic flight is demonstrated.

Range includes but is not limited to – advanced turns, spinning, loops, rolls, stall turns, combinations, emergencies and recovery from unusual attitudes.

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| <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       | 15 March 2012     | 31 December 2018         |
| Review       | 2       | 20 October 2016   | 31 December 2027         |
| Review       | 3       | 28 September 2023 | 31 December 2027         |
| Review       | 4       | 29 May 2025       | N/A                      |

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| <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>.

### 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.