

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

<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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<b>Entry information</b>	
<b>Critical health and safety prerequisites</b>	Industry requirements are that the candidate must meet the eligibility requirements of the Civil Aviation Act 1990 and the Civil Aviation Rules Part 61 for a commercial pilot licence.

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### Explanatory notes

- 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 Aircraft, equipment, and facilities required for the flight test must be in accordance with the requirements of CAA Advisory Circular 61-12.
- 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 – aircraft flight manuals, CAA Rules, CAA Advisory Circulars, CAA Flight Test Standards Guides, operator exposition.

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## Outcomes and evidence requirements

### Outcome 1

Demonstrate knowledge of aerobatic flight.

#### Evidence requirements

- 1.1 Civil Aviation Rules relevant to aerobatic flying are explained in accordance with industry texts and standards.
- Range may include but is not limited to – CAR 91.701, CAR 91.703
- 1.2 Air frame and aerodynamics are explained in accordance with industry texts and standards.
- 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 mechanical limitations are explained in accordance with industry texts and standards.
- 1.4 Flight controls limitations and effects are explained in accordance with industry texts and standards.
- Range may include but is not limited to – ailerons and elevator, rudder, throttle, slipstream, torque.
- 1.5 Human factors affecting aerobatic flight are explained in accordance with industry texts and standards.
- 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 in accordance with industry texts and standards.
- 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 in accordance with industry texts and standards.
- 1.8 Pilot maintenance for aerobatic flight is explained in accordance with industry texts and standards.
- Range may include but is not limited to – abilities and restrictions in accordance with Part 43.

**Outcome 2**

Demonstrate aerobatic flight.

**Evidence requirements**

2.1 Aerobatic flight is demonstrated in accordance with industry texts and standards.

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

<b>Planned review date</b>	31 December 2021
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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	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0169
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

**Comments on this unit standard**

Please contact ServiceIQ [qualifications@serviceiq.org.nz](mailto:qualifications@serviceiq.org.nz) if you wish to suggest changes to the content of this unit standard.