

<b>Title</b>	<b>Demonstrate competence for aerobatic flight instruction</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are, for an flight instructor's aerobatic instruction privilege, able to: demonstrate a professional attitude to aerobatic flight instruction; carry out ground-based instruction on aerobatic flying; carry out pre-flight briefing instruction on aerobatic flying; carry out in-flight instruction in aerobatic flying; carry out post-flight debriefing instruction for aerobatic flying; describe aerobatic flying; and demonstrate knowledge of CAA Rules and Advisory Circulars with respect to authorisations and responsibilities of aerobatic flight instructors.
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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 flight 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, and their subsequent amendments.
- 2 This unit standard is aligned with the relevant parts of the prescribed syllabi of the CAA for a flight instructor aerobatic instruction privilege. 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 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, New Zealand Defence Force (NZDF) Policy.
- 8 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 Category C or B flight instructor rating.
- 9 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 a professional attitude to aerobatic flight instruction.

#### Performance criteria

- 1.1 Lesson is prepared in advance of the student's arrival.
- 1.2 A professional attitude to flight instruction is demonstrated by personal presentation.
- 1.3 Documentation is checked and fitness for instructional purposes is established.  
  
Range logbook – summarised, certified, endorsed with appropriate category for flight instructor rating;  
other documents may include but are not limited to – appropriate charts, recommended flight instruction reference texts.

### Outcome 2

Carry out ground-based instruction for aerobatic flying.

#### Performance criteria

- 2.1 The student's possession of the prerequisite training for aerobatic flight instruction is established.
- 2.2 A lesson on an aerobatic manoeuvre is presented.  
  
Range each of three axes;  
loop, roll, stall turn, spin, spin recovery.

2.3 Ground instructional procedures are demonstrated.

Range procedures – questioning for understanding, use of teaching aids, blackboard or whiteboard technique.

### **Outcome 3**

Carry out pre-flight briefing instruction for aerobatic flying.

#### **Performance criteria**

3.1 Pre-flight briefing instruction is carried out.

Range instruction – objectives, principles of flight and considerations, aircraft management, human factors, air exercise.

### **Outcome 4**

Carry out in-flight instruction in aerobatic flying.

#### **Performance criteria**

4.1 In-flight instructional procedures are demonstrated.

Range procedures – demonstrate, demonstrate and patter, monitor student practice, identify and correct student faults, maintain situational awareness to ensure the safety of the aircraft and crew.

4.2 In-flight instructional procedures for manoeuvres in three planes are demonstrated.

Range rolling, pitching, yawing, sequences, spin, spin recovery.

### **Outcome 5**

Carry out post-flight debriefing instruction for aerobatic flying.

#### **Performance criteria**

5.1 Post-flight debriefing instruction is carried out.

Range may include but is not limited to – encouraging student self-critique, observations, anomalies, remedies, technique, evaluation, student records.

### **Outcome 6**

Describe aerobatic flying.

**Performance criteria**

6.1 Aerobatics is described.

Range may include but is not limited to – loading; inertia with respect to abrupt use of controls; control effectiveness; differential aileron effect; ‘G-force’; orientation; overspeed; stages and characteristics of – loop, roll, stall turn, spin, spin recovery.

**Outcome 7**

Demonstrate knowledge of CAA Rules and Advisory Circulars with respect to authorisations and responsibilities of aerobatic flight instructors.

**Performance criteria**

7.1 Privileges of aerobatic flight instructors are explained.

Range includes but is not limited to – aerobatic instruction, authorising solo aerobatic flight, logbook certification, instructor renewal requirements.

7.2 Limitations of aerobatic flight instructors are explained.

Range includes but is not limited to – first solo, aerobatic instruction.

<b>Replacement information</b>	This unit standard replaced unit standard 16323.
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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	18 June 2010	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

<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.