

Title	Demonstrate competence for aerobatic flight instruction		
Level	6	Credits	10

Purpose	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; demonstrate knowledge of aerobatic flying; and demonstrate knowledge of CAA Rules and Advisory Circulars with respect to aerobatic flight instruction.
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Classification	Aviation > Aircraft Operation
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Available grade	Achieved
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Guidance Information

- 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.
- 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.
- Definitions, abbreviations, and acronyms used in this unit standard are to be found in:
 - Civil Aviation Rules Part 1* on the CAA website at <https://www.caa.govt.nz>, and
 - 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>.
- All references to the CAA refer specifically to the Civil Aviation Authority of New Zealand.
- Industry standards and recommended practices are those set in place by the CAA.
- Industry texts may include but are not limited to – aircraft flight manuals, CAA Rules, CAA Advisory Circulars, CAA Flight Test Standards Guides, operator exposition.
- 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 Category C or B flight instructor rating.

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 in accordance with industry texts and standards.
- 1.2 Personal presentation is professional in accordance with industry standards.
- 1.3 Documentation is checked and fitness for instructional purposes is established in accordance with industry standards.

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 in accordance with industry standards.
- 2.2 A lesson on an aerobatic manoeuvre is presented in accordance with industry standards.
- 2.3 Ground instructional procedures are demonstrated in accordance with industry texts and standards.

Range each of three axes;
loop, roll, stall turn, spin, spin recovery.

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 in accordance with industry texts and standards.

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 in accordance with industry texts and standards.

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 in accordance with industry texts and standards.

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 in accordance with industry texts and standards.

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

Outcome 6

Demonstrate knowledge of aerobatic flying.

Performance criteria

- 6.1 Aerobatics is described in accordance with industry texts and standards.

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

Outcome 7

Demonstrate knowledge of authorisation and responsibilities of aerobatic flight instructors.

Performance criteria

7.1 Privileges are explained in accordance with CAA Rules and Advisory Circulars.

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

7.2 Limitations are explained in accordance with CAA Rules and Advisory Circulars.

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

Replacement information	This unit standard replaced unit standard 16323.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

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

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