Title	Demonstrate competence for aerobatic flight		
Level	5	Credits	8

Purpose	People credited with this unit standard are able to demonstrate: knowledge and skills of aerobatic flight.
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Classification Aviation > Aircraft Operation	~0)
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Available grade	Achieved	
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#### **Guidance Information**

- 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 <a href="http://www.caa.govt.nz/rules/rules.htm">http://www.caa.govt.nz/rules/rules.htm</a>, and their subsequent amendments.
- 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 <a href="https://www.caa.govt.nz">https://www.caa.govt.nz</a>, and
  - b Aeronautical Information Publication (AIP) published by Aeronautical Information Management (AIM), PO Box 294, Wellington 6140 or on the AIM website at <a href="http://www.aip.net.nz">http://www.aip.net.nz</a>.
- 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.
- 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.

# Outcomes and performance criteria

#### **Outcome 1**

Demonstrate knowledge of aerobatic flight.

## Performance criteria

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.

## Performance criteria

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.

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	15 March 2012	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 <a href="http://www.nzqa.govt.nz/framework/search/index.do">http://www.nzqa.govt.nz/framework/search/index.do</a>.