

<b>Title</b>	<b>Demonstrate type rating competency for an aeroplane not exceeding 5700 kg MCTOW</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able, for type rating competence for an aeroplane not exceeding 5700kg maximum certificated take-off weight (MCTOW), to demonstrate: technical knowledge; pre-flight checks and procedures; aeroplane take-off procedures; and in-flight competence.
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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 type competency demonstration 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. The unit standard will be granted only in respect of a rating for a type other than that used for the initial flight test.
- 2 This unit standard is aligned with the relevant parts of the prescribed syllabi of the CAA. 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 This unit standard is assessed against a single-pilot aircraft.
- 9 Emergency procedures may be real or simulated.
- 10 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 type rating.
- 11 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 technical knowledge for a type rating competency for an aeroplane not exceeding 5700kg MCTOW.

#### Performance criteria

- 1.1 The operation of systems installed on the aeroplane is described.
- 1.2 Aircraft performance and limitations are stated.
- 1.3 Aircraft weight and balance, and loading are calculated.
- 1.4 The validity of aircraft documents and the airworthiness of the aircraft are verified.

### Outcome 2

Demonstrate pre-flight checks and procedures for a type rating competency for an aeroplane not exceeding 5700kg MCTOW.

#### Performance criteria

- 2.1 Pre-flight external and internal inspections are completed.
- Range inspections include but are not limited to – fuel quantity, proper grade of fuel, fuel contamination, oil level, location of critical items.
- 2.2 Engine start, warm-up, and run-up procedures are demonstrated.
- 2.3 Taxiing, steering and brake checks are demonstrated.
- Range includes but is not limited to – confirmation of proper functioning of flight instruments.

**Outcome 3**

Demonstrate aeroplane take-off procedures for a type rating competency for an aeroplane not exceeding 5700kg MCTOW.

**Performance criteria**

3.1 Aircraft take-off is demonstrated.

Range includes but is not limited to – normal, cross wind, short field, soft surface, rough water, glassy water.

3.2 Engine failure during take-off is demonstrated.

**Outcome 4**

Demonstrate in-flight competence for a type rating competency for an aeroplane not exceeding 5700kg MCTOW.

**Performance criteria**

4.1 Intentional engine shutdown and air-start are demonstrated.

Range multi-engine aircraft only.

4.2 Engine failure techniques are demonstrated.

Range may include but is not limited to – immediately after decision speed ( $V_1$ ).

4.3 Engine failure procedures (cruise flight) are demonstrated.

4.4 Recovery from an approach to  $V_{MC}$  is demonstrated.

Range multi-engine aircraft only.

4.5 Engine failure after take-off is demonstrated.

4.6 Cruising flight is demonstrated.

4.7 Steep turns are demonstrated.

4.8 Stall recognition and recovery are demonstrated.

Range includes but is not limited to – clean, take-off, and landing configurations.

4.9 Circuit procedures are demonstrated.

Range includes but is not limited to – departure procedures, joining procedures, compliance with ATS instructions; overshoot procedure (one engine inoperative, for multi-engine aircraft only).

4.10 Approach and landing are demonstrated.

4.11 Emergency procedures are demonstrated.

Range includes but is not limited to – propeller over speed, vacuum system failure, cabin fire, electrical malfunctions, landing gear malfunctions, brake failure, flap failure, door opening in flight; evidence of three different situations is required.

<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
Revision	2	9 December 2010	31 December 2018
Review	3	20 October 2016	31 December 2027
Review	4	28 September 2023	31 December 2027
Review	5	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>.

#### 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.