

Title	Demonstrate knowledge of, and skills for, mountain flying for a commercial pilot licence (aeroplane)		
Level	5	Credits	5

Purpose	People awarded with this unit standard are able, for a commercial pilot licence (aeroplane), to: demonstrate knowledge of the principles of mountain flying; maintain a horizon; demonstrate valley turns; demonstrate saddle crossing; demonstrate route finding; and demonstrate emergency procedures.
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Classification	Aviation > Aircraft Operation
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Available grade	Achieved
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Entry information	
Critical health and safety prerequisites	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.

Explanatory notes

- 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 Good Aviation Practice booklet *Mountain Flying* (2006) published by the CAA for a commercial pilot licence. 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 All references to the CAA refer specifically to the Civil Aviation Authority of New Zealand.
- 5 Industry standards and recommended practices are those set in place by the CAA.

- 6 Industry texts may include but are not limited to – aircraft flight manuals, CAA Rules, CAA Advisory Circulars, CAA GAP publications, operator exposition.
- 7 For the purpose of this unit standard, *knowledge* refers to the knowledge, understanding, and application of the subject matter.
- 8 Reorientation and emergency procedures may be real or simulated.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of the principles of mountain flying for a commercial pilot licence (aeroplane).

Evidence requirements

- 1.1 Horizon is defined in accordance with industry texts and standards.
- 1.2 Wind awareness is described in accordance with industry texts and standards.
- 1.3 Situational awareness is described in accordance with industry texts and standards.
- 1.4 Contour and constant altitude flying is described in accordance with industry texts and standards.
- 1.5 Valley turns are described in accordance with industry texts and standards.
- 1.6 Saddle crossings are described in accordance with industry texts and standards.
- 1.7 Route finding is described in accordance with industry texts and standards.
- 1.8 Difficult conditions are described in accordance with industry texts and standards.
- 1.9 Cautions and emergencies are described in accordance with industry texts and standards.
- 1.10 Survival considerations are described in accordance with industry texts and standards.

Outcome 2

Maintain a horizon during mountain flying for a commercial pilot licence (aeroplane).

Range contour flying, varying terrain, lack of defined horizon.

Evidence requirements

- 2.1 Flight at a constant altitude is maintained in accordance with industry texts and standards.
- 2.2 Controls are co-ordinated using outside reference to confirm instruments in accordance with industry texts and standards.
- Range elevator, aileron, rudder, power.
- 2.3 Awareness of shifting horizon perspective and gradient is appreciated by flying at a constant height in accordance with industry texts and standards.

Outcome 3

Demonstrate valley turns during mountain flying for a commercial pilot licence (aeroplane).

Evidence requirements

- 3.1 Valley turns are performed in accordance with industry texts and standards.
- Range level, climbing, descending turns.

Outcome 4

Demonstrate saddle crossing during mountain flying for a commercial pilot licence (aeroplane).

Evidence requirements

- 4.1 Saddle crossing is performed in accordance with industry texts and standards.
- Range approach, crossing, position after crossing;
any one of – saddle, pass, ridge.

Outcome 5

Demonstrate route finding during mountain flying for a commercial pilot licence (aeroplane).

Evidence requirements

- 5.1 Reorienting in place and time awareness is demonstrated in accordance with industry texts and standards.

Outcome 6

Demonstrate emergency procedures during mountain flying for a commercial pilot licence (aeroplane).

Evidence requirements

6.1 Emergency landings are demonstrated in accordance with industry texts and standards.

Range emergency situations include – forced landing, precautionary landing;
non-ideal factors include any of – terrain, weather.

Planned review date	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	18 June 2010	31 December 2018
Revision	2	9 December 2010	31 December 2018
Review	3	20 October 2016	N/A

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>.

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 if you wish to suggest changes to the content of this unit standard.