

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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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 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.

- 9 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 the principles of mountain flying for a commercial pilot licence (aeroplane).

Performance criteria

- 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.

Performance criteria

- 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).

Performance criteria

- 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).

Performance criteria

- 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).

Performance criteria

- 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).

Performance criteria

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.

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

Consent and Moderation Requirements (CMR) reference

0169

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.