

Title	Demonstrate cross-country navigation skills for a private pilot licence		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to demonstrate: pre-flight preparation procedures for cross-country flying; in-flight procedures; turning point procedures; diversion procedures; and post-flight procedures.
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Classification	Aviation > Aircraft Operation
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Available grade	Achieved
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Guidance Information

- 1 The Stage 1 (Elementary Navigation), 2 (Basic Navigation) and 3 (Advanced Navigation) flights covered by this unit standard are to 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 prescribed syllabi of the CAA, for a private 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, NZCAA Flight Test Standard Guides, operator exposition.
- 7 Industry requirements are that the candidate must meet the eligibility requirements of the Civil Aviation Act 1990 and the Civil Aviation Rule Part 61 for a private pilot licence.

Outcomes and performance criteria

Outcome 1

Demonstrate pre-flight preparation procedures for cross-country flying.

Performance criteria

- 1.1 Map preparation is demonstrated in accordance with industry texts and standards.
- 1.2 Flight log preparation is demonstrated in accordance with industry texts and standards.
- 1.3 Flight plan requirements are demonstrated in accordance with industry texts and standards.
- 1.4 Air traffic service procedures are prepared for in accordance with industry texts and standards.
- 1.5 Weather data, NOTAMs, and AIPNZ supplements are obtained and correctly interpreted in accordance with industry texts and standards.
- 1.6 Fuel requirements and management are calculated in accordance with the aircraft flight manual and industry standards.
- 1.7 Aircraft loading is demonstrated in accordance with the aircraft flight manual and industry standards.
- 1.8 Emergency procedures are described in accordance with industry texts and standards.

Outcome 2

Demonstrate in-flight procedures.

Performance criteria

- 2.1 Pre-departure systems checks are demonstrated in accordance with the aircraft flight manual and industry standards.
- 2.2 Departure is demonstrated in accordance with the aircraft flight manual and industry standards.
- 2.3 Navigation is demonstrated in accordance with the aircraft flight manual and industry standards.
 - Range may include but is not limited to – position reporting, log keeping, track and ETA correction, map reading, high level and low level navigation.

- 2.4 Communications facilities are used to obtain flight information in accordance with the aircraft flight manual and industry standards.
- 2.5 Use of nav aids is demonstrated in accordance with the aircraft flight manual and industry standards.
- 2.6 Tracking techniques are demonstrated in accordance with industry texts and standards.
- 2.7 Flying accuracy is demonstrated in accordance with the aircraft flight manual and industry standards.
- 2.8 ETA revision is demonstrated in accordance with the aircraft flight manual and industry standards.
- 2.9 Radiotelephony procedures are demonstrated in accordance with industry texts and standards.
- 2.10 In-flight emergency procedures are demonstrated in accordance with the aircraft flight manual and industry standards.
- Range may include but is not limited to – diversion; precautionary landings; engine failure, radio failure, electrics failure, fire; actions in the event of becoming lost.
- 2.11 Look-out and general airmanship are demonstrated in accordance with industry texts and standards.

Outcome 3

Demonstrate turning point procedures.

Performance criteria

- 3.1 ETA achievement is demonstrated in accordance with the aircraft flight manual and industry standards.
- 3.2 Turning points are identified in accordance industry texts and standards.
- 3.3 Away landing is demonstrated in accordance with the aircraft flight manual and industry standards.

Outcome 4

Demonstrate diversion procedures.

Performance criteria

- 4.1 Decision to carry out a diversion is demonstrated in accordance with the aircraft flight manual and industry standards.

- 4.2 Track and distance estimation is demonstrated in accordance with the aircraft flight manual and industry standards.
- 4.3 ETA revision is demonstrated in accordance with the aircraft flight manual and industry standards.
- 4.4 Fuel considerations are demonstrated in accordance with the aircraft flight manual and industry standards.

Outcome 5

Demonstrate post-flight procedures.

Performance criteria

- 5.1 Post-flight procedures are demonstrated in accordance with the aircraft flight manual and industry standards.

Range may include but is not limited to – engine shut down; secure aircraft; complete documentation; terminate flight plan; terminate SAR watch.

Planned review date	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	26 March 2007	31 December 2018
Review	2	20 October 2016	31 December 2027
Review	3	28 September 2023	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.