

Title	Demonstrate knowledge of, and skills for, night flying for a private pilot licence		
Level	4	Credits	2

Purpose	People credited with this unit standard are able to demonstrate: knowledge of vision for night flying; knowledge of visual illusions for night flying, flight preparation for night flying; operating a VFR flight at night; and emergency procedures at night.
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Classification	Aviation > Aircraft Operation
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Available grade	Achieved
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Guidance Information

- 1 The night flying 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.
- 2 This unit standard is aligned with the relevant parts of the Night VFR (2020) (Good Aviation Practice) published by the CAA, and the relevant parts of the prescribed syllabi of the CAA's AC 61-3. 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, operator exposition.
- 8 For the purpose of this unit standard, *knowledge* refers to the knowledge, understanding, and application of the subject matter.

- 9 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 knowledge of vision for night flying.

Performance criteria

- 1.1 Dark adaptation is explained.
- 1.2 The effect of the absence of an object of focus is described.

Outcome 2

Demonstrate knowledge of visual illusions for night flying.

Performance criteria

- 2.1 The effect of reflections from shining surface is described.
- 2.2 Flicker vertigo is explained.
- 2.3 Autokinesis is explained.
- 2.4 Confusing ground and star light and its effects are described.
- 2.5 The black hole phenomenon and its consequences are explained.
- 2.6 Sensory illusions and spatial disorientation are explained.
 - Range includes but is not limited to – the leans, somatogravic illusion, somatogyral illusion, Coriolis effect.
- 2.7 Methods of recovery from spatial disorientation are described.

Outcome 3

Demonstrate flight preparation for night flying.

Performance criteria

- 3.1 Pre-flight checks are demonstrated.
- 3.2 Passengers are briefed.

3.3 Night equipment is carried.

Range includes but is not limited to – torch, hand-held VHF, hand-held GPS, cell phone, timing device, survival kit, warm clothing.

3.4 Familiarisation with flight instruments in preparation for night flying is carried out.

3.5 Flight planning is carried out.

Range includes but is not limited to – weather, fuel, aerodrome lighting, alternates, emergencies, airspace.

Outcome 4

Demonstrate operating a VFR flight at night.

Performance criteria

4.1 Start-up, taxiing, and take-off are demonstrated.

4.2 Operating in the circuit is demonstrated.

Range leaving the circuit, approach, landing.

Outcome 5

Demonstrate emergency procedures at night.

Performance criteria

5.1 Procedures for an emergency at night are analysed, coordinated and carried out.

Range includes but is not limited to – communications failure, electrical failure, engine failure.

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	18 June 2010	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.