

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 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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Entry information	
Recommended skills and knowledge	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.

Explanatory notes

- 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 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 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, operator exposition.

- 7 For the purpose of this unit standard, *knowledge* refers to the knowledge, understanding, and application of the subject matter.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of vision for night flying.

Evidence requirements

- 1.1 Dark adaptation is described in accordance with industry texts and standards.
- 1.2 The effect of the absence of an object of focus is described in accordance with industry texts and standards.

Outcome 2

Demonstrate knowledge of visual illusions for night flying.

Evidence requirements

- 2.1 The effect of reflections from shining surface is described in accordance with industry texts and standards.
- 2.2 Flicker vertigo is described in accordance with industry texts and standards.
- 2.3 Auto-kinesis is described in accordance with industry texts and standards.
- 2.4 Confusing ground and star light and its effects are described in accordance with industry texts and standards.
- 2.5 The 'black hole' effect and its consequences are described in accordance with industry texts and standards.
- 2.6 Sensory illusions and spatial disorientation are described in accordance with industry texts and standards.
- Range includes but is not limited to – the leans, somatographic illusion, somatogyral illusion, coriolis illusion.
- 2.7 Methods of recovery from spatial disorientation are described in accordance with industry texts and standards.

Outcome 3

Demonstrate flight preparation for night flying.

Evidence requirements

- 3.1 Pre-flight checks are demonstrated in accordance with industry texts and standards.
- 3.2 Passengers are briefed according to industry texts and standards.
- 3.3 Night equipment is carried in accordance with industry texts and standards.
- 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 in accordance with industry texts and standards.
- 3.5 Flight planning is carried out in accordance with industry texts and standards.
- Range includes but is not limited to – weather, fuel, aerodrome lighting, alternates, emergencies, airspace.

Outcome 4

Demonstrate operating at night

Evidence requirements

- 4.1 Start-up, taxiing, and take-off are demonstrated in accordance with industry texts and standards.
- 4.2 Operating in the circuit is demonstrated in accordance with industry texts and standards.
- Range leaving the circuit, approach, landing.

Outcome 5

Demonstrate emergency procedures at night.

Evidence requirements

- 5.1 Procedures for an emergency at night are analysed, coordinated and carried out in accordance with the aircraft flight manual and industry standards.
- Range includes but is not limited to – communications failure, electrical failure, engine failure.

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
Review	2	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.