

Title	Demonstrate flying skills using Night Vision Imaging Systems (helicopters)		
Level	5	Credits	?

Comment [SH1]: Is the level correct?

Comment [SH2]: How many credits? How long does it take someone to become competent to carry out this task?

Purpose	People credited with this unit standard are able, for NVIS flight training, to demonstrate: pre-flight preparation, departure procedures, enroute procedures, descent and landing procedures, systems procedures during airborne phase, emergency procedures during airborne phase, crew resource management, and post flight 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 pilot licence.

Explanatory notes

- 1 The flight covered by this unit standard must be demonstrated in accordance with the Civil Aviation Rules Part 91 and other relevant rules, published by the Civil Aviation Authority of New Zealand (CAA), PO Box 31441, Lower Hutt 5040, and their subsequent amendments.
- 2 This unit standard is aligned with the relevant parts of the prescribed syllabi of the CAA for NVIS Flight Training (Pilots) in accordance with AC91-13. Credit will be awarded upon meeting the requirements of the CAA-approved assessment or examination.
- 3 *Confined area* refers to an area with a diameter equal up to two times the helicopter length.
- 4 Definitions, abbreviations, and acronyms used in this unit standard are to be found in:
 - a Civil Aviation Rules Part 1 published by the Civil Aviation Authority of New Zealand, PO Box 31441, Lower Hutt 5040, or on the CAA website at <http://www.caa.govt.nz>; and
 - b *Aeronautical Information Publication (AIP)* published by Aeronautical Information Management, PO Box 294, Wellington 6140.

- 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 – helicopter flight manuals, CAA Rules, CAA Advisory Circulars, Radio Technical Commission for Aeronautics (RTCA) documents, Federal Aviation Authority (FAA) documents, operator exposition.
- 8 Emergency procedures may be real or simulated.

Outcomes and evidence requirements

Outcome 1

Demonstrate pre-flight preparation for NVIS flight.

Evidence requirements

- 1.1 Pre-flight planning is completed in accordance with industry texts and standards.

Range may include but is not limited to – weather, fuel management, helicopter performance calculations, helicopter loading, Night Vision Goggles (NVG) equipment assembly/initial focus.
- 1.2 Operational risk assessment is completed in accordance with industry texts and standards.

Range may include but is not limited to – weather, illumination level of flight environment, crew composition, operator/crew experience with NVG operations, aircraft serviceability.
- 1.3 Pre-flight inspections are completed in accordance with industry texts and standards.

Range includes but is not limited to – NVIS, aircraft.
- 1.4 Before take-off NVG check is completed in accordance with industry texts and standards.

Outcome 2

Demonstrate departure procedures for NVIS flight.

Evidence requirements

- 2.1 Take-off to hover is demonstrated in accordance with industry texts and standards.

- 2.2 Hover manoeuvring is demonstrated in accordance with industry texts and standards.
- 2.3 Climb out is demonstrated in accordance with industry texts and standards.
Range best rate, best angle.

Outcome 3

Demonstrate enroute procedures for NVIS flight.

Evidence requirements

- 3.1 Medium bank turns are demonstrated in accordance with industry texts and standards.
- 3.2 Low/high speed characteristics are demonstrated in accordance with industry texts and standards.
- 3.3 Navigation along a predetermined route is demonstrated in accordance with industry texts and standards.
- 3.4 Minimum heights/obstacle avoidance flying is demonstrated in accordance with industry texts and standards.
- 3.5 In-flight adjustments are completed in accordance with industry texts and standards.

Outcome 4

Demonstrate descent and landing procedures for NVIS flight.

Evidence requirements

- 4.1 Initial reconnaissance is completed in accordance with industry texts and standards.
- 4.2 Normal approach is demonstrated in accordance with industry texts and standards.
Range clear area, confined area, point in space approach.
- 4.3 Steep approach is demonstrated in accordance with industry texts and standards.
- 4.4 Landings area demonstrated in accordance with industry texts and standards.
Range includes but is not limited to – slope landing.
- 4.5 Unaided approach in the circuit is demonstrated in accordance with industry texts and standards.

Outcome 5

Demonstrate systems procedures during airborne phase for NVIS flight.

Evidence requirements

- 5.1 Systems procedures during airborne phase are demonstrated in accordance with industry texts and standards.
 - Range communication equipment, navigation systems, aircraft lighting systems.

Outcome 6

Demonstrate emergency procedures during airborne phase for NVIS flight.

Evidence requirements

- 6.1 Emergency procedures during airborne phase are demonstrated in accordance with industry texts and standards.
 - Range NVG failure, NVIS failure, unusual attitude recovery, inadvertent IMC recovery.

Outcome 7

Demonstrate crew resource management for NVIS flight.

Evidence requirements

- 7.1 Crew resource management is demonstrated in accordance with industry texts and standards.

Outcome 8

Demonstrate post flight procedures for NVIS flight.

Evidence requirements

- 8.1 Post flight procedures are demonstrated in accordance with industry texts and standards.
 - Range may include but is not limited to – recording NVG flight time, NVIS and NVG defects.

Planned review date	31 December 2019
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1		N/A

Accreditation and Moderation Action Plan (AMAP) reference 0169

This AMAP 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, or an inter-institutional body with delegated authority for quality assurance, 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.

Consent requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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 the ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.