

Title	Demonstrate knowledge of helicopter performance and loading for an airline transport pilot licence (helicopter)		
Level	6	Credits	5

Purpose	People accredited with this unit standard are able, in accordance with Subject No. 51, to demonstrate knowledge of: helicopter performance; and helicopter weight and balance.
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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 an airline transport pilot licence (helicopter).

Explanatory notes

- 1 This unit standard is aligned with the relevant parts of the prescribed syllabi of the Civil Aviation Authority of New Zealand (CAA) for Subject No 51, for an airline transport pilot licence (helicopter). Credit will be awarded upon meeting the requirements of the CAA-approved assessment or examination.
- 2 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>.
- 3 All references to the CAA refer specifically to the Civil Aviation Authority of New Zealand.
- 4 Industry standards and recommended practices are those set in place by the CAA.
- 5 Industry texts may include but are not limited to – aircraft flight manuals, CAA Rules, CAA Advisory Circulars, CAA Flight Test Standards Guides, operator exposition.
- 6 For the purpose of this unit standard, *knowledge* refers to knowledge, understanding, and application of the subject matter.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of helicopter performance in accordance with Subject No 51.

Evidence requirements

- 1.1 Terminology and abbreviations relating to helicopter performance are explained in accordance with industry texts and standards.
- 1.2 Factors affecting performance are explained and performance is calculated in accordance with industry texts and standards.
- 1.3 Operational performance standards are derived and calculated in accordance with industry texts and standards.
- 1.4 Performance planning information is calculated in accordance with industry texts and standards.

Outcome 2

Demonstrate knowledge of helicopter weight and balance in accordance with Subject No 51.

Evidence requirements

- 2.1 Terminology and abbreviations relating to helicopter weight and balance are explained in accordance with industry texts and standards.
- 2.2 Weight, and the effect of operating a helicopter outside its weight limits, are explained, and loading problems are solved in accordance with industry texts and standards.
- 2.3 The centre of gravity and the principles of helicopter balance are explained, and balance calculations are completed, in accordance with industry texts and standards.

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	15 April 2011	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 (CMRs). 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.