

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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Guidance Information

- 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.
- 7 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).

Outcomes and performance criteria

Outcome 1

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

Performance criteria

- 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.

Performance criteria

- 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.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

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	31 December 2027
Review	3	28 September 2023	31 December 2027

Consent and Moderation Requirements (CMR) reference

0169

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.