

Title	Demonstrate basic knowledge of the principles of flight for New Zealand Defence Forces aircraft		
Level	2	Credits	2

Purpose	<p>This unit standard is intended for people who are members of the New Zealand Cadet Forces or those who are interested in the New Zealand Defence Force or the Royal New Zealand Air Force.</p> <p>People credited with this unit standard are able to demonstrate basic knowledge of: the theory of flight; aircraft axis movements; and flight propulsion systems used in NZDF aircraft.</p>
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Classification	Cadet Forces > Cadet Forces Specialist
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Available grade	Achieved
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Guidance Information

- 1 All knowledge and practice requirements must comply with the policy and training manuals for RNZN, NZA, RNZAF and/or NZCF.
- 2 Training manuals relevant to this unit standard include NZCF manual 142 (Aviation Studies). Training manuals are available from New Zealand Cadet Forces.
- 3 Definitions
NZA is the New Zealand Army;
NZCF is the New Zealand Cadet Forces;
NZDF is the New Zealand Defence Force;
RNZAF is the Royal New Zealand Air Force;
RNZN is the Royal New Zealand Navy.

Outcomes and performance criteria

Outcome 1

Demonstrate basic knowledge of the theory of flight.

Performance criteria

- 1.1 Describe Bernoulli's theorem and how it relates to lift.

1.2 Describe basic components of an aerofoil.

Range aerofoil, chord line, angle of attack, camber, relative airflow.

1.3 Describe flight forces in terms of the cause and effect on aircraft.

Range lift, weight, thrust, drag.

Outcome 2

Demonstrate basic knowledge of aircraft axis movements.

Performance criteria

2.1 Describe axes of movement and the resulting aircraft movements.

Range lateral, longitudinal, normal.

2.2 Describe aircraft control surfaces in terms of the effect they have on aircraft.

Range ailerons, elevators, rudder, trim tabs, flaps, spoilers.

Outcome 3

Demonstrate basic knowledge of flight propulsion systems used in NZDF aircraft.

Performance criteria

3.1 Describe past and present flight propulsion systems.

Range one used in the past and one in the present.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 2007	31 December 2021
Review	2	23 April 2020	N/A

Consent and Moderation Requirements (CMR) reference	0121
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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 The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.