

<b>Title</b>	<b>Describe aircraft components and the principles of aircraft flight</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>This is an introductory, knowledge-based unit standard for people entering the aviation industry.</p> <p>People credited with this unit standard are able to describe aircraft components and the principles of aircraft flight.</p>
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<b>Classification</b>	Aviation > Aviation - Core
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<b>Available grade</b>	Achieved
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### Guidance Information

*Principles of aircraft flight* referred to in this unit standard are applied equally to fixed and rotary winged aircraft in level flight.

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### Outcomes and performance criteria

#### Outcome 1

Describe aircraft components and the principles of aircraft flight.

#### Performance criteria

1.1 Major aircraft components are described in terms of their function on an aircraft either in flight or on the ground.

Range            on the ground – undercarriage;  
                       in the air – ailerons, vertical stabiliser, horizontal stabiliser, elevator,  
                       rudder, rotors;  
                       in the air and on the ground – fuselage, wings, engine, propellers.

1.2 The production of lift by an aerofoil is described for an aircraft in level flight.

Range            Newton's third law of motion, Bernoulli's theorem.

1.3 Aircraft primary controls are described in terms of their effect on an aircraft in flight.

Range            yaw, pitch, roll.

- 1.4 The major forces acting on an aircraft are described in terms of their effect on flight.

Range lift, drag, weight, thrust.

<b>Planned review date</b>	31 December 2025
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 March 2004	31 December 2020
Review	2	12 February 2010	31 December 2020
Review	3	26 April 2018	N/A
Rollover and Revision	4	25 May 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0028
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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 Ringa Hora Services Workforce Development Council [qualifications@ringahora.nz](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.