

<b>Title</b>	<b>Apply knowledge of compass compensation to the certification of aeronautical maintenance</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This knowledge-based unit standard is one of a series intended for people certifying the release to service of aircraft following maintenance or repair.</p> <p>People credited with this unit standard are able to apply knowledge of: the properties, characteristics, and effects of magnetism; compass systems; compass compensation; and compass swing base surveying to the certification of aeronautical maintenance.</p>
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<b>Classification</b>	Aeronautical Engineering > Aeronautical Maintenance Certification
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 The Civil Aviation Authority of New Zealand (CAA) Aircraft Maintenance Engineer Licence – Examination Subject 16, Compass Compensation is the national standard, and is linked to international standards.
- 2 This unit standard is aligned with the Civil Aviation Authority of New Zealand Advisory Circular AC66-2.16, Examination Syllabus for Subject 16, Compass Compensation and will be evidenced by meeting these requirements. This is available on the CAA website at <http://www.caa.govt.nz>.
- 3 *Applied knowledge* – will be in the context of aeronautical maintenance as defined by Civil Aviation Rules Part 1 as follows: ‘in relation to an aircraft or aircraft component, means all work and inspections performed to ensure the continued airworthiness of the aircraft or component, and all modifications’; will include making judgements regarding the scope, processes, and quality of maintenance for release to service certification; and will be in accordance with industry texts as defined by the candidate’s workplace or enterprise.
- 4 *Industry texts* include but are not limited to –  
published aeronautical training manuals or text books;  
enterprise exposition;  
manufacturer publications;  
government and local body legislation;  
airworthiness or regulatory authority requirements.

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## Outcomes and performance criteria

### Outcome 1

Apply knowledge of the properties, characteristics, and effects of magnetism to the certification of aeronautical maintenance.

#### Performance criteria

- 1.1 Knowledge of the properties and characteristics of magnetism is applied.
- 1.2 Knowledge of the effects of magnetism on aircraft and aircraft operation is applied.

### Outcome 2

Apply knowledge of aircraft compass systems to the certification of aeronautical maintenance.

Range direct reading compass, remote reading compass.

#### Performance criteria

- 2.1 Knowledge of aircraft compass systems is applied.
- 2.2 Knowledge of aircraft compass system maintenance is applied.
- 2.3 Knowledge of aircraft compass system inspection and certification is applied.

### Outcome 3

Apply knowledge of aircraft compass compensation to the certification of aeronautical maintenance.

Range direct reading compass, remote reading compass.

#### Performance criteria

- 3.1 Knowledge of aircraft compass compensation is applied.
- 3.2 Knowledge of aircraft compass compensation inspection and certification is applied.

### Outcome 4

Apply knowledge of compass swing base surveying to the certification of aeronautical maintenance.

#### Performance criteria

- 4.1 Knowledge of compass swing base requirements is applied.

4.2 Knowledge of compass swing base surveying is applied.

<b>Planned review date</b>	31 December 2027
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 August 2004	31 December 2020
Review	2	9 December 2010	31 December 2020
Review	3	28 September 2017	31 December 2024
Review	4	27 October 2022	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.