

<b>Title</b>	<b>Demonstrate knowledge of instruments and navigation aids for an instrument rating</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of instruments and navigation aids for an instrument rating in accordance with Subject No 56.
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<b>Classification</b>	Aviation > Aircraft Operation
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard is aligned with the relevant parts of the prescribed syllabi of the CAA for Subject No 56, for an instrument rating. 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 a pilot licence.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of instruments and navigation aids for an instrument rating in accordance with Subject No 56.

**Performance criteria**

- 1.1 Pressure instruments and their uses are described and explained in accordance with industry texts and standards.
- 1.2 Gyroscopic instruments and their uses are described and explained in accordance with industry texts and standards.
- 1.3 Compasses and their uses are described and explained in accordance with industry texts and standards.
- 1.4 Basic radio principles and their application are described and explained in accordance with industry texts and standards.
- 1.5 Primary surveillance radar (PSR) is described and explained in accordance with industry texts and standards.
- 1.6 Secondary surveillance radar (SSR) is described and explained in accordance with industry texts and standards.
- 1.7 Transponders, their principles of operation, and use are described and explained in accordance with industry texts and standards.
- 1.8 Airborne weather radar, its principle of operation, and use are described and explained in accordance with industry texts and standards.
- 1.9 Visual landing aids are described and their applications are demonstrated in accordance with industry texts and standards.
- 1.10 NDB and ADF, and their principles, are described and explained, and their applications are demonstrated in accordance with industry texts and standards.
- 1.11 VOR and its principles are explained, and its applications are demonstrated, in accordance with industry texts and standards.
- 1.12 Distance measuring equipment (DME) and its operating principles are explained, and its applications are demonstrated, in accordance with industry texts and standards.
- 1.13 Instrument landing system (ILS) and its principles of operation are explained, and its applications are demonstrated, in accordance with industry texts and standards.
- 1.14 Global navigation satellite system (GNSS/GPS) and its components are described and explained, and its applications are demonstrated, in accordance with industry texts and standards.

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<b>Replacement information</b>	This unit standard replaced unit standard 15364.
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**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	21 January 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>.