

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

Purpose	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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Classification	Aviation > Aircraft Operation
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Available grade	Achieved
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Entry information	
Critical health and safety prerequisites	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.

Explanatory notes

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.

Outcomes and evidence requirements

Outcome 1

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

Evidence requirements

- 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.

Replacement information	This unit standard replaced unit standard 15364.
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Planned review date	31 December 2021
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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	N/A

Consent and Moderation Requirements (CMR) reference	0169
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact ServicelQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.