

<b>Title</b>	<b>Demonstrate knowledge of inertial systems, GPS, and UAS (uninhabited aerial system) digital mapping for UAV operations</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able, for uninhabited aerial vehicle operations, to demonstrate knowledge of: inertial systems and GPS (Global Positioning System); and uninhabited aerial system (UAS) digital mapping.
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<b>Classification</b>	Aviation > Aircraft Operation
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<b>Available grade</b>	Achieved
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### Explanatory notes

- 1 The knowledge covered by this unit standard must be demonstrated in accordance with the Civil Aviation Rules Part 61 and other relevant rules, published by the Civil Aviation Authority (CAA) of New Zealand, PO Box 3555, Wellington 6140, or available at <http://www.caa.govt.nz>.
- 2 Industry standards and recommended practices are those recognised by the CAA.
- 3 Industry texts may include but are not limited to – aircraft flight manuals, CAA Rules, CAA Advisory Circulars, operator exposition.
- 4 For the purpose of this unit standard, *knowledge* refers to knowledge, understanding, and application of the subject matter.

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### Outcomes and evidence requirements

#### Outcome 1

Demonstrate knowledge of inertial systems and GPS (Global Positioning System) for uninhabited aerial vehicle operations.

#### Evidence requirements

- 1.1 The use of inertial systems and GPS for uninhabited aerial vehicle operations is explained in accordance with industry texts and standards.

Range includes but is not limited to – GPS theory, GPS error, inertial error, gyro systems.

**Outcome 2**

Demonstrate knowledge of UAS (uninhabited aerial system) digital mapping for uninhabited aerial vehicle operations.

**Evidence requirements**

2.1 UAS digital mapping is explained in accordance with industry texts and standards.

Range includes but is not limited to – geographic data types, geographic meta-data, map data maintenance.

<b>Planned review date</b>	31 December 2017
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	18 April 2013	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 the Service Skills Institute (ServiceIQ) [qualifications@serviceiq.org.nz](mailto:qualifications@serviceiq.org.nz) if you wish to suggest changes to the content of this unit standard.