

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

Purpose	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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Classification	Aviation > Aircraft Operation
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Available grade	Achieved
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Guidance Information

- 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.

Outcomes and performance criteria

Outcome 1

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

Performance criteria

- 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.

Performance criteria

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.

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Status information and last date for assessment for superseded versions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	18 April 2013	31 December 2027
Review	2	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>.