

Title	Demonstrate knowledge of oceanography, marine geology, geophysics, and hydrographic surveys		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to demonstrate knowledge of oceanography, marine geology, geophysics, and hydrographic surveys.
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Classification	Surveying > Hydrography
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Available grade	Achieved
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.
- 2 Legislation and references relevant to this unit standard include:
 - Health and Safety at Work Act 2015;
 - HYSPEC Contract Specification for Hydrographic Surveys Version 2.0, Land Information New Zealand (LINZ), available at <https://www.linz.govt.nz>;
 - Standards of Competence For Category “B” Hydrographic Surveyors S-5B, available at <https://iho.int/>.
- 3 Definition
Industry requirements may refer but are not limited to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer’s requirements, contract specifications, manuals, procedural documents, and guidelines.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of oceanography, marine geology, geophysics, and hydrographic surveys.

Performance criteria

- 1.1 Oceanographic parameters as they affect hydrographic operations are explained.
- Range physical properties of the sea, oceanographic measurements, waves, mixing of fresh and salt water, effect of fresh water.
- 1.2 Oceanographic sampling, and the methods for measuring oceanographic parameters, are described.
- Range seabed sampling, sound velocity, profiles, current measurements, secchi disk observation (water clarity).
- 1.3 Oceanographic data reporting requirements are explained.
- 1.4 Marine geology and geophysical surveys and their impact on hydrographic surveying operations are explained.
- Range seabed characteristics, seismic surveys, magnetic surveys, habitat and environmental mapping, nautical charting survey, UneXploded Ordnance (UXO) survey.
- 1.5 Hydrographic surveys are described in terms of their impact on the environment.
- Range physical and living environment, impact of sound at various frequencies on marine life.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 November 2015	31 December 2022
Review	2	27 May 2021	N/A

Consent and Moderation Requirements (CMR) reference	0101
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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 Connexis - Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.