

<b>Title</b>	<b>Undertake and assist with hydrographic survey measurement</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>30</b>

<b>Purpose</b>	People credited with this unit standard are able to: <ul style="list-style-type: none"> <li>– set up and assist with equipment calibration for hydrographic surveying operations;</li> <li>– gather, process, and generate data; and</li> <li>– demobilise and assist with final survey report.</li> </ul>
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<b>Classification</b>	Surveying > Hydrography
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<b>Available grade</b>	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 to 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, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer’s requirements, contract specifications, manuals, procedural documents, and guidelines.

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### Outcomes and performance criteria

#### Outcome 1

Set up and assist with equipment calibration for hydrographic surveying operations.

#### Performance criteria

- 1.1 Survey brief is confirmed with the Surveyor in Charge (SIC).
- 1.2 Mobilisation requirements for equipment and vessel are confirmed with the SIC.

1.3 Equipment is set up and assistance with calibration is provided.

Range equipment – tidal equipment, positioning and depth measurement equipment, sampling equipment; calibrations – Multi Beam Echo Sounder (MBES) patch test, positioning and heading confidence checks, bar checks, comparison checks, using Real Time Kinematic (RTK) systems, Single Beam Echo Sounder (SBES) calibrations.

**Outcome 2**

Gather, process, and generate data.

**Performance criteria**

- 2.1 Gathering data and ongoing accuracy checks of data capturing equipment are undertaken.
- 2.2 Data is gathered, and the acquisition process is monitored, as per the survey brief.
- 2.3 Acquisition records are prepared and maintained as per the survey brief.
- 2.4 Data is processed into a useable dataset under the direction of the SIC.
- 2.5 Data is generated into a deliverable, as per the survey brief, under the direction of the SIC.

**Outcome 3**

Demobilise and assist with final survey report.

**Performance criteria**

- 3.1 Demobilisation requirements for equipment and vessel are confirmed and assistance with demobilisation is provided.
- 3.2 Contribution is made to the final report as directed by the SIC.

<b>Planned review date</b>	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

<b>Consent and Moderation Requirements (CMR) reference</b>	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Comments on this unit standard

Please contact Connexis - Infrastructure Industry Training Organisation [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.