Title	**Install and interface hydrographic surveying equipment for collecting spatial data**		
Level	**5**	**Credits**	**10**

Purpose	People credited with this unit standard are able to install and interface hydrographic surveying equipment for collecting spatial data.

Classification	Surveying > Hydrography

Available grade	Achieved

Guidance Information

1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant industry and legislative 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; and any subsequent amendments.

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.

4 Range
Evidence of assessment is required for two different hydrographic surveying projects.

Outcomes and performance criteria

Outcome 1

Install hydrographic surveying equipment for collecting spatial data.

Performance criteria

1.1 Requirements for collection of spatial data are confirmed with a supervisor.

1.2 Installation of survey equipment is completed in accordance with industry requirements.

Range equipment must include – multi beam echo sounder (MBES), global navigation satellite system (GNSS) receivers, inertial navigation systems (INS);
equipment may include – single beam echo sounder (SBES), sound velocity systems, ultra-short baseline (USBL), long base line (LBL), secondary synchronization signal (SSS), laser scanners, sub bottom profilers;
evidence of four pieces of equipment is required.

Outcome 2

Interface hydrographic surveying equipment for collecting spatial data

Performance criteria

2.1 Interfacing software issues for the project are actioned in terms of identifying, rectifying, and reporting issues.

Range issues may include but are not limited to – data input, inadequate software functionality, misuse of the interface, error and post processing, inadequate interface support, initialisation/value errors, data structure alteration, failure to communicate software modifications.

Planned review date	31 December 2026

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 March 2021	N/A

Consent and Moderation Requirements (CMR) reference	0101

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.