

Title	Design, plan and manage the construction of a hydrometric station		
Level	5	Credits	15

Purpose	<p>This unit standard is intended for people who will design, plan and install a hydrometric station.</p> <p>People credited with this unit standard are able to: scope and design a hydrometric station; develop a construction plan and manage the construction of a hydrometric station.</p>
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Classification	Water Industry > Field Hydrology
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Building Act 2004;
 - Resource Management Act 1991;
 - Health and Safety at Work Act 2015.
- 2 The construction of a station must be planned and designed in accordance with:
 - National Environmental Monitoring Standards (NEMS);
 - organisational procedures.
 The complete list of NEMS can be found on the NEMS website www.nems.org.nz.
- 3 The hydrometric station must include one of either: water level or rainfall, and must be of a scale that requires design and planning.
- 4 It is recommended that candidates complete Unit 28800, *Operate and maintain hydrometric stations*, before commencing this unit standard.
- 5 Definition
Organisational procedures refer to the policies and procedures set out in a verbal or written form by the employer or organisation. Procedures must be consistent with current legislative requirements and manufacturer's recommendations or instructions where relevant.

Outcomes and performance criteria

Outcome 1

Scope and design a hydrometric station.

Performance criteria

- 1.1 Scope station purpose and carry out stakeholder consultation to inform user requirements.
- 1.2 Evaluate site options and select the most suitable for station placement and to meet user requirements.
- Range evaluation must include – catchment hydrology, river morphology, and access permissions, as applicable.
- 1.3 Investigate site conditions, and record relevant measurements and characteristics for station placement.
- Range must include – access, hazards, communications, power availability.
- 1.4 Evaluate options for the selected site, taking into account purpose, requirements and budget.
- Range must include – structures, instrumentation.
- 1.5 Consult on the draft design, and prepare financial estimates for hydrometric station construction.
- Range consultation may include but is not limited to – local authorities, engineers, managers, land owners and occupiers, iwi authorities and stakeholders.
- 1.6 Gain approval of the station design and location.

Outcome 2

Develop a construction plan for a hydrometric station.

Performance criteria

- 2.1 Develop a construction plan.
- 2.2 Develop a project health and safety plan for the construction plan in accordance with organisational procedures.
- 2.3 Consult on the complete plans.

Outcome 3

Manage the construction of a hydrometric station.

Performance criteria

- 3.1 Confirm the design and plans for the construction of the station.

- 3.2 Source materials, test instrumentation and allocate resources as required.
- 3.3 Manage the construction of the station in accordance with the station design and construction plan.
- 3.4 Commission the station.
- 3.5 Compile station metadata and file according to organisational procedures.

Range metadata must include – station records, legal documents, as-built plans, site references.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 2015	31 December 2022
Review	2	24 October 2019	N/A

Consent and Moderation Requirements (CMR) reference	0232
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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 Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.