

Title	Operate and maintain hydrometric stations		
Level	5	Credits	25

Purpose	<p>This unit standard is intended for people who will operate, maintain, verify and retrieve data from hydrometric stations.</p> <p>People credited with this unit standard are able to: explain the purpose for, inspect and verify operation of and maintain hydrometric stations; and retrieve and save data from hydrometric stations.</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:
 - Health and Safety at Work Act 2015.
- 2 Stations must be operated 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 Hydrometric data includes water level and rainfall time series data.
- 4 Number of stations operated on must be a minimum of 15 with at least five from either water level or rainfall.
- 5 Definitions

Data refers to statistical measurements or observations, and the term *information* is data in context.

Metadata describes data in detail. It has information about how, when, and by whom certain data was collected and the data format.

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

Explain the purpose for, inspect and verify operation of, and maintain hydrometric stations

Range must include but is not limited to – water level at a flow station, rainfall, and station levelling.

Performance criteria

- 1.1 Explain the purpose of the station and how it meets the data requirements of the users.
- 1.2 Carry out a station inspection, perform manual readings and record them.
- 1.3 Check on-site instrument functionality and compare manual readings against corresponding logged data.
- 1.4 Investigate any discrepancies between logged data and manual readings and carry out, or plan remedial action.
- 1.5 Complete maintenance and repairs.
- 1.6 Document and report station verification outcomes.

Outcome 2

Retrieve and save data from hydrometric stations.

Performance criteria

- 2.1 Download data loggers directly and via telemetry.
- 2.2 Check data files to detect errors or faults.
- 2.3 Transfer data to correct storage locations.
- 2.4 Load data into processing and database software.
- 2.5 File metadata.

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

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.