

Title	Carry out discharge measurement by wading		
Level	5	Credits	20

Purpose	<p>This unit standard is intended for people who will perform streamflow measurements in rivers and streams shallow enough to be waded.</p> <p>People credited with this unit standard are able to: carry out discharge measurement by wading, and record results; and derive and file discharge gauging results.</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 Wading gaugings in shallow rivers and streams must be performed 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 Gaugings will include velocity-area methods. The candidate must perform 10 gaugings on separate occasions, at no less than two sites.
- 4 Hydrometric data includes water level, streamflow and rainfall time series data.
- 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

Carry out discharge measurement by wading, and record results.

Performance criteria

- 1.1 Identify sites for the purpose of measurement.
- 1.2 Select equipment and perform pre-deployment tests.
- 1.3 Set up cross section and decide methodology.
- 1.4 Carry out measurement(s).
- 1.5 Carry out post-deployment tests, take remedial action based on test results as required, and record results.

Outcome 2

Derive and file discharge gauging results.

Performance criteria

- 2.1 Derive each gauging result.
- 2.2 Assess each result for quality control.
- 2.3 Transfer each result and associated files to correct storage locations.
- 2.4 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
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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 the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.