

Title	Manage, monitor, and optimise effluent filtration processes in wastewater treatment		
Level	5	Credits	14

Purpose	People credited with this unit standard are able to: manage, monitor, and optimise effluent filtration processes in wastewater treatment.
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Classification	Water Industry > Wastewater Treatment
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Available grade	Achieved
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Guidance Information

- Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable legislative and industry requirements. Evidence for assessment of the practical aspects of this unit standard must be gathered using the filtration processes in the candidate's own workplace.
- Legislation relevant to this unit standard includes: Health and Safety at Work Act 2015, Water Services Act 2021, Resource Management Act 1991, Hazardous Substances and New Organisms (HSNO) Act 1996, and subsequent amendments.
- Definitions
Critical control point – specific point, procedure, or step in water treatment processes at which control can be exercised to reduce, eliminate, or prevent the possibility of a public health hazard.
Optimise – adjusting plant input variables to make the process as effective as possible to achieve the desired output, taking into account the constraints of cost, human input, effluent quality, and resource consent requirements.
Wastewater may include stormwater and sewage systems.
- For the purpose of this unit standard, filtration includes physical filtration only, not biological filtration.
- Learning and assessment activities for this unit standard must be informed by Te Mana o te Wai (refer to [Taumata Arowai](#)) and the *National Policy Statement for Freshwater Management 2020* available from <https://environment.govt.nz/>.

Outcomes and performance criteria

Outcome 1

Manage effluent filtration processes in wastewater treatment.

Performance criteria

- 1.1 Process variables are managed to achieve the desired parameters and maintain effluent filtration process performance.

Outcome 2

Monitor effluent filtration processes in wastewater treatment.

Performance criteria

- 2.1 Sampling is managed to ensure effluent filtration samples are collected.
- 2.2 Data is collected and interpreted in accordance with filtration process requirements.

Outcome 3

Optimise effluent filtration processes in wastewater treatment.

Performance criteria

- 3.1 The critical control points in the effluent filtration process are managed.
- 3.2 Filtration process variables are adjusted for optimisation of the process in accordance with the results of monitoring.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 March 2017	31 December 2023
Review	2	28 April 2022	N/A

Consent and Moderation Requirements (CMR) reference	0101
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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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.