

Title	Operate a water-jet unit on infrastructure worksites		
Level	3	Credits	10

Purpose	<p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – demonstrate knowledge of water-jet units; – prepare for water-jetting operations; – operate a water-jetting unit; and – complete post-operational procedures for a water-jetting vehicle and equipment.
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Classification	Infrastructure Works > Infrastructure Works Equipment
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Available grade	Achieved
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Prerequisites	Class of driver licence required for the vehicle being driven.
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.
- 2 Legislation relevant to this unit standard include:
Health and Safety at Work Act 2015; and
Health (Drinking Water) Amendment Act 2007, available from www.legislation.govt.nz.
- 3 Definitions
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.
Job instructions are those given to the operator before undertaking a job. They may include site safety instructions, contract drawings, and written memos.
Water-jetting may also be referred to as hydro-blasting or flushing.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of water-jet units.

Performance criteria

- 1.1 Water-jet units and their attachments and controls are described in terms of purpose and function, and correct operation.
- 1.2 Types and weights of water-jet unit are described in terms of their capabilities and limitations, and suitability for specific infrastructure works tasks.
- 1.3 Water-jet units are described in terms of their safety features and requirements for safe use.

Outcome 2

Prepare for water-jetting operations.

Performance criteria

- 2.1 Job instructions are confirmed in accordance with industry requirements.
- 2.2 Method of water-jetting is confirmed in accordance with job instructions.
 - Range provision for pipe material, location of other underground services, condition of pipe, maximum pressure.
- 2.3 Pre-start check of vehicle and water-jetting equipment is carried out prior to starting work and any required actions are taken in accordance with industry requirements.
 - Range machine operation, damage, wear and tear.
- 2.4 A hazard check of site and machine is carried out, and any identified hazards are eliminated or minimised in accordance with industry requirements.
- 2.5 Site communication protocols and any required notifications are confirmed in accordance with industry requirements.

Outcome 3

Operate a water-jetting unit.

Performance criteria

- 3.1 Water tank is filled in accordance with industry procedures and regulatory requirements.

Range holding tanks, fire hydrants, water cart.

- 3.2 Water-jet is operated, and task is completed in accordance with manufacturer's instructions, contract specifications, and industry requirements.

Range selection of nozzles, water pressure, capture and removal of debris, safety, cleanliness of the pipe, prevention of back flow.

Outcome 4

Complete post-operational procedures for a water-jetting vehicle and equipment.

Performance criteria

- 4.1 Vehicle is safely parked, and vehicle and water-jetting equipment are secured, and daily maintenance is carried out, in accordance with industry requirements.

- 4.2 Vehicle and water-jetting equipment are inspected, and any faults are reported in accordance with industry requirements.

Planned review date	31 December 2029
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 February 2015	31 December 2021
Review	2	27 September 2018	31 December 2026
Review	3	12 December 2024	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 Waihangara Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangaraAraRau.nz if you wish to suggest changes to the content of this unit standard.