

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

Purpose	People credited with this unit standard are able to: 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 Legislation relevant to this unit standard includes: Health and Safety at Work Act 2015 and Health and Safety in Employment Regulations 1995; The Health Act 1956, Health (Drinking Water) Amendment Act 2007.
- 2 Assessment against this unit standard must take place in a workplace environment, and the candidate must be familiar with the type of plant to be used for assessment. Assessment parameters will depend on company and site-specific equipment, procedures, and practices. Practices must reflect industry best practice and comply with legislative requirements.
- 3 Definitions
Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements applicable to the company or a specific site. Requirements are documented in the company's health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and 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 company 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 company 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 company requirements.
- 2.5 Site communication protocols and any required notifications are confirmed in accordance with company requirements.

Outcome 3

Operate a water-jetting unit.

Performance criteria

- 3.1 Water tank is filled in accordance with company procedures and regulatory requirements.
 - Range may include but is not limited to – 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 company requirements.

Range includes but is not limited to – 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 company requirements.
- 4.2 Vehicle and water-jetting equipment are inspected, and any faults are reported in accordance with company requirements.

Planned review date	31 December 2023
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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	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 the Infrastructure ITO qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.