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| <b>Title</b> | <b>Carry out non-structural concrete operations for infrastructure works</b> |                |          |
| <b>Level</b> | <b>4</b>   | <b>Credits</b> | <b>6</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to: prepare non-structural concrete operations; excavate and prepare foundation material for non-structural concrete operations; form, place, finish, and cure non-structural concrete works; and reinstate site. |
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| <b>Classification</b> | Infrastructure Works > Infrastructure Civil Works |
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| <b>Available grade</b> | Achieved |
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### Guidance information

- 1 Legislation relevant to this unit standard includes:  
Health and Safety at Work Act 2015;  
Resource Management Act 1991.
- 2 Assessment against this unit standard must take place in a workplace environment. 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.  
*Contract specifications* include plans, diagrams, and special technical conditions. They do not include special administrative conditions.  
*Job instructions* are those given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos.  
*Set-out* means to set out site by survey method using pegs.
- 4 Evidence for assessment against this unit standard must include at least two of: kerb and channel, vehicle crossings, footpaths, mobility crossings, traffic islands, kerb protrusions.

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### Outcomes and performance criteria

#### Outcome 1

Prepare for non-structural concrete operations.

**Performance criteria**

- 1.1 Job instructions and extent of work are confirmed in accordance with contract specifications.
- 1.2 Any adjacent landowners or members of the public affected by the specified project are notified in accordance with contract specifications and company requirements.
- 1.3 Hazards are identified and controlled in accordance with site safety plan and company requirements.
- 1.4 Resources required to carry out the job are confirmed in accordance with company requirements.
- 1.5 Site is made secure in accordance with site safety plan.
- 1.6 Underground services are identified and protected in accordance with company and service provider requirements.
- 1.7 Site measurements and set-out details are confirmed with supervisor in accordance with contract specifications.

**Outcome 2**

Excavate and prepare foundation material for non-structural concrete operations.

**Performance criteria**

- 2.1 Job is set out in accordance with contract specifications.
- 2.2 Site is excavated to specified width, depth, gradient, and length.
- 2.3 Foundation conditions and stability are confirmed with supervisor in accordance with company requirements.
- 2.4 Foundation is prepared to specified levels, dimensions, and compaction.
- 2.5 Any required reinforcing is placed in accordance with contract specifications.

**Outcome 3**

Form, place, finish, and cure non-structural concrete works.

**Performance criteria**

- 3.1 Equipment is set up to achieve specified dimensions and grades.
- 3.2 Any required concrete testing is carried out in accordance with contract specifications and company requirements.

- 3.3 Concrete works are constructed in accordance with contract specifications and company requirements.
- 3.4 Concrete is finished in accordance with contract specifications for floating, plastering, brooming, edging, and jointing.
- 3.5 Concrete is cured in accordance with contract specifications.

#### Outcome 4

Reinstate site.

#### Performance criteria

- 4.1 Any formwork and surplus materials are removed in accordance with company requirements.
- 4.2 Site is reinstated in accordance with contract specifications and company requirements.

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| <b>Replacement information</b> | This unit standard replaced unit standard 6486 and unit standard 22284. |
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| <b>Planned review date</b> | 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       | 27 September 2018 | N/A                      |

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| <b>Consent and Moderation Requirements (CMR) reference</b> | 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 Connexis Infrastructure ITO at [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.