

<b>Title</b>	<b>Demonstrate knowledge of soil properties for infrastructure structural foundation works</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of soil properties for infrastructure structural foundation works.
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<b>Classification</b>	Infrastructure Works > Structural Foundations
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Learning and assessment within this unit standard must be carried out in an infrastructure works environment and in accordance with the following, as relevant to their role, and any subsequent amendments:
  - Health and Safety at Work Act 2015;
  - Resource Management Act 1991;
  - Heritage New Zealand Pouhere Taonga Act 2014;
  - Hazardous Substances and New Organisms Act 1996.
- 2 Definition  
*Angle of repose* is the angle at which an undisturbed pile is self-supporting.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of soil properties for infrastructure structural foundation works.

#### Performance criteria

- 1.1 Silts are described in terms of their properties and implications for structural foundations.
 

Range	may include but are not limited to - water control, removal and angle of repose, loading, offloading, moisture content, compaction, mobile plant.
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- 1.2 Clays are described in terms of their properties and implications for structural foundations.
- Range may include but are not limited to – water control, removal and angle of repose, loading, haulage, offloading, spreading, moisture content, compaction, mobile plant.
- 1.3 Rocks are described in terms of their properties and implications for structural foundations.
- Range may include but are not limited to – removal and angle of repose, loading, haulage, offloading, compaction, mobile plant.
- 1.4 Sands are described in terms of their properties and implications for structural foundations.
- Range may include but are not limited to – removal and stabilisation, loading, haulage, mobile plant.
- 1.5 Founding rock is described in terms of implications for structural foundations.
- Range may include but is not limited to – rock strength, rock mass, defects, disintegration.

<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	26 July 2018	N/A

<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 [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.