

<b>Title</b>	<b>Demonstrate knowledge of excavation safety on an infrastructure worksite</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of excavation safety on an infrastructure worksite.
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<b>Classification</b>	Infrastructure Works > Generic Infrastructure Works
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<b>Available grade</b>	Achieved
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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 and references relevant to this unit standard include:
  - Health and Safety at Work Act 2015;
  - *Excavation Safety: Good Practice Guidelines, July 2016* available from [www.worksafe.govt.nz](http://www.worksafe.govt.nz).
- 3 Definition  
*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.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of excavation safety on an infrastructure worksite.

#### Performance criteria

- 1.1 Hazards are explained in terms of how they cause accidents at infrastructure worksite excavations.
- Range may include but is not limited to – excavation depth, ground collapse, trips and falls, unsafe plant or equipment, high water table, changing or unsafe worksite conditions, type of soil, ground stability, overhead or underground services, vibration, ground water, proximity of other trenches, unexpected events, unauthorised personnel; evidence of five hazards for the worksite is required.
- 1.2 Safe practices are explained in terms of how they prevent accidents associated with worksite excavations.
- Range may include but is not limited to – communication hazards and risk with team and supervisor, personal protective equipment (PPE), geotechnical site assessment, trench supports, securing the excavation work area, ground stabilisation techniques, prevent over filling, safe equipment and plant checks, warning signs, edge protection, consents or permits; evidence of five safe practices for the worksite is required.
- 1.3 Factors that can cause ground collapse are explained.
- Range tension crack, toppling, sliding, bulging, boiling, soil stress, water pressure, saturated soil, vibration.
- 1.4 Local authority excavation safety requirements are confirmed for infrastructure worksite operations.
- Range may include but is not limited to – work access permits, Worksafe notifications, resource consent requirements; evidence of one local authority requirement.
- 1.5 Types of shoring and materials required for excavation safety are explained in terms of their purpose and use.
- Range trench-shoring boxes, manhole boxes, trench shields, slide-rail or rolling strut shoring, sheet piling, ground anchors.

<b>Planned review date</b>	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	29 July 2021	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>.

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**Comments on this unit standard**

Please contact Connexis - Infrastructure Industry Training Organisation [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.