| Title | Plan, identify and protect underground services during excavation and reinstatement | | |
|-------|---|---------|----|
| Level | 3 | Credits | 10 |

| underground services; and prepare for and monitor excavation and reinstatement to protect underground services. | • | , , , |
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| Classification | Electricity Supply > Electricity Supply - Distribution Networks |
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| | |

| Available grade | 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 applicable legislative and industry requirements.
- Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015; Electricity Act 1992; Electricity (Safety) Regulations 2010; and any subsequent amendments and replacements; Electricity supply industry codes of practice and documented enterprise procedures, including Safety Manual Electricity Industry (SM-EI) (2015) Wellington: Electricity Engineers' Association available at www.eea.co.nz, Code of Practice for Temporary Traffic Management (4th ed.) (2012) available at https://worksafe.govt.nz.
- 3 Definitions
 - Asset owner refers to a participant who owns or operates assets used for generating or conveying electricity.
 - Industry requirements include all asset owner requirements; manufacturers' specifications; and enterprise requirements which may include the documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out.

 Underground services may include but are not limited to electricity, gas, water, telecommunications.
- 4 Assessment of practical skills against the outcomes in this unit standard requires three practical observations from three different workplace activities.

Outcomes and performance criteria

Outcome 1

Plan to excavate an underground site.

Performance criteria

- 1.1 Work instructions are accepted in the form of a job sheet.
- 1.2 Work instructions and underground service plans are interpreted.

Range site plan clarity, access to documents, existing underground

service plans, and reference to any standards or guides for safety

underground services.

1.3 Work environment is identified and reviewed.

Range hazards, ground conditions, traffic, work location.

- 1.4 Safe working zone is established.
- 1.5 Work equipment is checked.

Outcome 2

Confirm location of existing underground services.

Range electrical cables; gas pipes; telecommunication cables; wastewater, storm

water, water pipes; traffic signals; documented local landowner's plant.

Performance criteria

2.1 Location and identity of existing underground services are confirmed.

Range hand digging, visual identification.

- 2.2 Work instructions are reviewed against actual location of existing underground services, with any proposed changes to instructions identified and relevant parties notified.
- 2.3 Approval to proceed with excavation is obtained.

Outcome 3

Prepare for and monitor excavation and reinstatement to protect underground services.

Performance criteria

3.1 Method of excavation and reinstatement is determined, and machinery, plant, and equipment are selected in accordance with site conditions and work instructions.

Range manual, mechanical.

- 3.2 Excavation is marked out in accordance with approved route and work instructions.
- 3.3 Excavation and reinstatement process is monitored, and underground services are protected.

| Planned review date | 31 December 2025 |
|---------------------|------------------|
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-------------------|--------------------------|
| Registration | 1 | 19 June 1997 | 31 December 2016 |
| Review | 2 | 21 November 2001 | 31 December 2016 |
| Revision | 3 | 10 September 2004 | 31 December 2016 |
| Review | 4 | 21 August 2009 | 31 December 2016 |
| Review | 5 | 18 September 2014 | 31 December 2022 |
| Review | 6 | 27 February 2020 | N/A |

| Consent and Moderation Requirements (CMR) reference | 0120 |
|---|------|
|---|------|

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact Connexis – Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.