

Title	Locate and identify services for infrastructure works		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: confirm the existence of services for infrastructure works; locate and mark services for infrastructure works; record and report position of services for infrastructure works; and describe procedures for managing and reporting damage to services.
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Classification	Infrastructure Works > Generic Infrastructure Works
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Available grade	Achieved
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Explanatory notes

- 1 Legislation and references relevant to this unit standard include:
Health and Safety at Work Act 2015, and subsequent amendments;
National Code of Practice for Utilities' Access to the Transport Corridors (Wellington: NZ Utilities Advisory Group), available from <http://www.nzuag.org.nz/national-code/>;
Guide for Safety with Underground Services (Wellington: Electricity Engineers Association of NZ Inc., 2002) available at <http://www.business.govt.nz/worksafe/>;
Excavation Safety – Good Practice Guidelines 2016, available from <http://www.worksafe.govt.nz/worksafe/information-guidance/all-guidance-items/excavation-safety-gpg>.
- 2 Definitions
Job instructions are those given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos.
To *record* means to indicate the construction set-out position on a drawing or site plan.
Network stand-over is an on-site technician provided by a network service provider, whose role is to advise on digging in the vicinity of the network's services.
Organisational procedures – instructions to staff and procedures which are documented in memo or manual format and are available in the workplace. These procedures include but are not limited to – site specific procedures, laboratory procedures, manufacturers' specifications, product quality specifications and reference to legislative or regulatory procedures relevant to the industry.
Services refer to public utilities such as power, telecommunications, water, wastewater, stormwater, and gas and to privately owned networks such as farm irrigation systems.
- 3 Assessment against this unit standard must take place in a workplace environment. Assessment parameters will be dependent on company and site specific equipment, procedures, and practices. Practices must reflect industry best practice and comply

with legislative requirements. Evidence is required of locating and identifying at least two services.

Outcomes and evidence requirements

Outcome 1

Confirm the existence of services for infrastructure works.

Range two types of services.

Evidence requirements

- 1.1 Required documentation and information is obtained and is sufficient for accurate location of services.

Range may include – beforeUdig, Geographic Information Systems (GIS), network plans.
- 1.2 Documentation, symbols, and current status of drawing or site plan are confirmed for infrastructure works that require the location and identification of services.
- 1.3 Type and location of services to be located and identified for infrastructure works are confirmed in accordance with drawing or site plan.
- 1.4 Type, location, and status (redundant or live) of services, and any requirement for a network standover are confirmed with relevant service providers, and permit is obtained in accordance with organisational procedures.

Outcome 2

Locate and mark services for infrastructure works.

Range two types of service.

Evidence requirements

- 2.1 Existing services are located in accordance with organisational procedures.
- 2.2 Services that cannot be located are investigated in accordance with service provider or landowner requirements and organisational procedures.

Range may include but is not limited to – ground penetrating radar (GPR), archive records, vacuum excavation.
- 2.3 Offset positions for services are located in accordance with job instructions and organisational procedures.

Range location, offset dimensions, depth from ground surface, reference points, paint marks (including colour).

- 2.4 The location of marked services is excavated and investigated in accordance with job instructions and organisational procedures.

Outcome 3

Record and report position of services for infrastructure works.

Evidence requirements

- 3.1 The position of services is recorded in accordance with job instructions and organisational procedures.
- 3.2 Where found, unidentified services are investigated, recorded, and reported in accordance with organisational procedures.
- 3.3 Position and status of services is communicated to infrastructure works site staff in accordance with organisational procedures.

Outcome 4

Describe the consequences of damage to services and the procedures for managing and reporting damage to services.

Evidence requirements

- 4.1 The consequences of damage to services are described in terms of disruption to supply and the effects of disruption.
- 4.2 Procedures for managing and reporting damage to services are described in accordance with organisational procedures and the requirements of service providers and any relevant controlling authority.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 July 1996	31 December 2012
Revision	2	9 March 1999	31 December 2012
Review	3	30 May 2000	31 December 2012
Revision	4	10 October 2002	31 December 2012
Review	5	25 September 2006	31 December 2012
Review	6	18 February 2011	31 December 2018
Review	7	16 March 2017	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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

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