Title | Demonstrate knowledge of damage avoidance, consequences of damage, and damage response for trenchless installations
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Level | 4
Credits | 4

**Purpose**  
People credited with this unit standard are able to, for trenchless installations: describe damage avoidance; describe the consequences of damage; and demonstrate knowledge of damage response.

**Classification**  
Infrastructure Works > Infrastructure Works Utilities

**Available grade**  
Achieved

**Explanatory notes**


   The following legislation and other requirements may apply to this unit standard:  
   Gas Act 1992;  
   Telecommunications Act 2001;  
   Electricity Act 1992;  
   Electricity Regulations 1997;  
   *Safety Rules SM-EI 2004*, Electricity Engineers’ Association of New Zealand, available from [http://www.eea.co.nz](http://www.eea.co.nz);  
   SNZ HB 2002 *Code of Practice for Working in the Road*, 2003 and  
   NZS 5258:2003 – *Gas Distribution Networks*, available from [http://www.standards.co.nz](http://www.standards.co.nz);  
   Road controlling authority requirements.

2. **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.  
   *Other authority* refers to territorial or other authority designated by the territorial authority with powers and responsibilities, in terms of response to underground damage.
Outcomes and evidence requirements

Outcome 1
Describe damage avoidance for trenchless installations.

Evidence requirements

1.1 Damage avoidance relating to adjacent services and structures is described in accordance with company requirements and service providers’ requirements.

Range type and proximity to services and structures, assessment of ground conditions, on-site documentation, service location, on-site instructions and communication, drill path, clearances.

Outcome 2
Describe the consequences of damage from trenchless installations.

Evidence requirements

2.1 Damages are described in terms of consequences for adjacent services and structures.

Range services include but are not limited to – gas, power, water supply, sewage pipes, rising sewer mains, stormwater, telecommunications, signal cables; structures include at least two of – walls, buildings, driveways, manholes, other.

Outcome 3
Demonstrate knowledge of damage response for trenchless installations.

Evidence requirements

3.1 The requirement to have all relevant documentation on site is explained in terms of compliance responsibilities and damage response preparedness.

3.2 Damage response is described in accordance with company requirements, service providers’ requirements, and requirements of the road controlling authority and/or other authority.

Planned review date 31 December 2019
Status information and last date for assessment for superseded versions

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Consent and Moderation Requirements (CMR) reference 0101

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 the Infrastructure ITO 'qualifications@infrastructureito.org.nz' if you wish to suggest changes to the content of this unit standard.