

Title	Provide tracking for horizontal directional drilling		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: prepare tracking and communications equipment and verify intended bore path; guide pilot bores; and assist with product installation and record as-built data.
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Classification	Infrastructure Works > Infrastructure Works Utilities
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Available grade	Achieved
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Guidance Information

- 1 Legislation and references relevant to this unit standard include: Health and Safety at Work Act 2015, Resource Management Act 1991, Local Government Act 2002; *Excavation Safety – Good Practice Guidelines* July 2016 and NZECP 34:2001 – *New Zealand Electrical Code of Practice for Electrical Safe Distances*, available from <https://worksafe.govt.nz>; NZS 4404:2010 Land Development and Subdivision Infrastructure, available from <http://www.standards.govt.nz>; territorial authority requirements.
- 2 Assessment against this unit standard must take place in a workplace environment. Assessment parameters depend on company and site-specific equipment, procedures, and practices. Practices must reflect industry best practice and comply with legislative requirements.
- 3 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.
Contract specifications include plans, diagrams, and special technical conditions. They do not include special administrative conditions.
Horizontal directional drilling includes the pilot bore and pull back operations.
Pull back may include push back.

Outcomes and performance criteria

Outcome 1

Prepare tracking and communications equipment and verify intended bore path.

Performance criteria

- 1.1 Tracking equipment is checked and confirmed as fit for purpose in accordance with manufacturer's instructions and company requirements.
- Range batteries or power supply, calibration, remote interface.
- 1.2 Design grade is checked and confirmed in accordance with the intended bore path, taking into account drill entrance angle, ground conditions, bend radius of rods and product to be installed, and required service clearances, in accordance with company requirements.
- 1.3 Confirmation to proceed with operations is obtained from the site supervisor in accordance with company requirements.
- 1.4 Communications equipment is made ready in accordance with company requirements.

Outcome 2

Guide pilot bores.

Performance criteria

- 2.1 The location of the drill head is tracked throughout the pilot bore operations.
- 2.2 Information on the location of the drill head is conveyed to enable the drill head to drill the intended bore path in accordance with company requirements.
- 2.3 Alignment and depth of bores are marked and/or recorded in accordance with company requirements and contract specifications.

Outcome 3

Assist with product installation and record as-built data.

Performance criteria

- 3.1 Assistance with product installation is provided as required by the site supervisor and/or contract specifications.
- 3.2 As-built data is recorded in accordance with company requirements and contract specifications.

Planned review date	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	17 December 2003	31 December 2014
Review	2	12 December 2008	31 December 2016
Review	3	19 February 2015	31 December 2021
Review	4	29 November 2018	N/A

Consent and Moderation Requirements (CMR) reference

0101

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

Comments on this unit standard

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