

<b>Title</b>	<b>Confirm and monitor onsite piling and deep foundation works</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>25</b>

<b>Purpose</b>	People credited with this unit standard are able to: <ul style="list-style-type: none"> <li>– confirm site personnel for onsite piling and deep foundation works; and</li> <li>– monitor onsite piling and deep foundation works.</li> </ul>
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<b>Classification</b>	Infrastructure Works > Structural Foundations
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<b>Available grade</b>	Achieved
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## Guidance Information

- Learning and assessment within this unit standard must be carried out in a construction or infrastructure works environment in accordance with industry requirements and the following legislation, as relevant to the role, and any subsequent amendments:
  - Health and Safety at Work Act 2015;
  - Resource Management Act 1991;
  - Heritage New Zealand Pouhere Taonga Act 2014;
  - Hazardous Substances and New Organisms Act 1996;
  - Traffic Regulations 1976;
  - Land Transport Rule: Vehicle Dimensions and Mass 2016;
  - Land Transport Rule: Heavy Vehicles 2004;
  - *Structural Engineering Society New Zealand (SESOC), New Zealand Geotechnical Society (NZGS) Construction Specification Bored and Driven Piles 2022*, available from [www.nzgs.org](http://www.nzgs.org);
  - *Excavation Safety: Good Practice Guidelines 2016*, available from Worksafe [www.worksafe.govt.nz](http://www.worksafe.govt.nz);
  - *Operator Safety Manual for Earthmoving Machinery 2017*, available from Civil Contractors New Zealand <https://civilcontractors.co.nz/>.
- Definitions
 

*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

Confirm site personnel for onsite piling and deep foundation works.

#### Performance criteria

- 1.1 Responsibilities for the co-ordination of site personnel are confirmed by a supervisor.
- Range maintaining the health and safety of workers, meeting daily targets.
- 1.2 Groundsman or spotter is selected, and their monitoring role confirmed in terms of plant operations onsite.
- Range monitoring role includes – the safety of the public, operator and workers, alignment issues, excess water, replacement of worn equipment or teeth, identifying equipment stress, stress on bolts or pins.
- 1.3 Site communication methods, including hand signals or radio communications are confirmed with the workers and used throughout onsite piling and deep foundation works.
- 1.4 Communications to relevant personnel are confirmed in terms of monitoring requirements prior to the commencement and during work activities.

### Outcome 2

Monitor onsite piling and deep foundation works.

#### Performance criteria

- 2.1 Hazards around mobile plant are monitored onsite in accordance with exclusion zones, hazard register, prestart requirements, and site documentation.
- 2.2 Depths and levels are monitored in accordance with the pile card.
- 2.3 Changing and securing of attachments are monitored in terms of ensuring the safety of workers.
- 2.4 Piling rig operations are monitored, and hazards or risks identified, to ensure efficiency and productivity while maintaining safety of the operator and the workers.
- 2.5 Tolerances, levels, alignment, and positioning are monitored to ensure a quality outcome.

- 2.6 Solutions or modifications in terms of addressing issues with onsite conditions are discussed with a foreman prior to implementation.
- 2.7 Tracking, manual or computer systems are monitored, and issues and solutions discussed with a foreman.
- 2.8 Erosion and sediment controls are monitored in accordance with the erosion and sediment control (ESC) plan for the worksite.
- Range work area defined, perimeter controls implemented, erosion controls implemented, sediment controls implemented, topsoil and stockpiles protected, additional internal controls, site progressively stabilised.
- 2.9 Maintenance programme for the site is monitored in accordance with the ESC plan.
- Range inspection schedule, monitoring schedule, resource consent conditions, rainfall events, reporting requirements, erosion, and sediment controls.
- 2.10 Actions to secure the site when issues arise are completed in accordance with client requirements and sign-off procedures.

<b>Planned review date</b>	31 December 2028
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2018	31 December 2026
Rollover	2	29 September 2022	31 December 2026
Review	3	27 July 2023	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>.

#### Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@WaihangaAraRau.nz](mailto:qualifications@WaihangaAraRau.nz) if you wish to suggest changes to the content of this unit standard.