

Title	Stabilise and modify layers for road construction or maintenance		
Level	4	Credits	6

Purpose	People credited with this unit standard are able to prepare to stabilise and modify, and stabilise and modify, layers for road construction.
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Classification	Infrastructure Works > Generic Road Works
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes:
 Health and Safety at Work Act 2015;
 Resource Management Act 1991;
 Health and Safety in Employment Regulations 1995;
 NZTA B/2 *Specification for construction of unbound granular pavement layers.*
 TNZ B/3 *Structural design and construction of flexible unbound pavements;*
 NZTA B/5; *Specification for the in-situ stabilisation of modified pavement layers*
 NZTA B/7; *Specification for the manufacture and construction of plant mixed modified pavement layers.*
 NZTA F/7; *Specification for Geotextiles*
 NZTA M/4: *Specification for basecourse aggregate*
 TNZ M/15: *Lime for use in Soil Stabilisation*, available from
 TNZ M/22 *Unbound road base and sub-base aggregates evaluation*, available from
<http://www.nzta.govt.nz/resources/>;
 Territorial Authority guidelines.
- 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 which may apply across the company or to 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.

Outcomes and performance criteria

Outcome 1

Prepare to stabilise and modify layers for road construction.

Performance criteria

1.1 Specified bearing capacity and method of stabilisation or modification are determined and confirmed in accordance with contract specifications and company requirements.

1.2 Site conditions are checked and confirmed as suitable for stabilisation or modification to take place.

Range weather, time.

1.3 Plant, equipment, and materials are selected in accordance with stabilisation or modification method and company requirements.

1.4 Site management and communication requirements are identified and confirmed as in place before commencement of work.

Range site safety plan, environmental plan, traffic management plan.

Outcome 2

Stabilise and modify layers for road construction.

Range three methods – must include at least one stabilisation method and one modification method.

Performance criteria

2.1 Area to be stabilised or modified is cleared of all debris and levelled in accordance with contract specifications and company requirements.

2.2 Any required mixing of stabilising or modification agents is carried out in accordance with manufacturer's specifications and company requirements.

2.3 Stabilisation or modification agent is applied to achieve specified bearing capacity in accordance with contract specifications and company requirements.

2.4 Compaction of stabilised or modified layers is carried out to achieve a uniform, stable density in accordance with contract specifications and company requirements.

2.5 Any joints are constructed in accordance with contract specifications and company requirements.

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	27 September 2018	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>.

Comments on this unit standard

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