

Title	Stabilise and modify layers for road construction or road 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 or road maintenance.
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Classification	Infrastructure Works > Generic Road Works
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Available grade	Achieved
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.
- 2 Legislation and references relevant to this unit standard include:
 - Health and Safety at Work Act 2015;
 - Resource Management Act 1991;
 - 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*;
 - TNZ M/22: *Unbound road base and sub-base aggregates evaluation*; available from www.nzta.govt.nz;
 and all subsequent amendments and replacements.
- 3 Definition

Industry requirements refer 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. Waka Kotahi New Zealand Transport Agency specifications and guidelines.

Outcomes and performance criteria

Outcome 1

Prepare to stabilise and modify layers for road construction or road maintenance.

Performance criteria

- 1.1 Specified bearing capacity and method of stabilisation or method of modification are determined and confirmed.
- 1.2 Site conditions are checked and confirmed as suitable for stabilisation or modification to take place.
- Range conditions include – weather, time.
- 1.3 Plant, equipment, and materials are selected in accordance with stabilisation or modification method.
- 1.4 Site management and communication requirements are identified and confirmed as in place before commencement of work.
- Range requirements include – site safety plan, environmental plan, traffic management plan.

Outcome 2

Stabilise and modify layers for road construction or road maintenance.

Range methods include at least one stabilisation method and one modification method; evidence of three methods is required.

Performance criteria

- 2.1 Area to be stabilised or modified is cleared of all debris and levelled.
- 2.2 Any required mixing of stabilising or modification agents is carried out.
- 2.3 Stabilisation or modification agent is applied to achieve specified bearing capacity.
- 2.4 Compaction of stabilised or modified layers is carried out to achieve a uniform, stable density.
- 2.5 Any joints are constructed.

Planned review date	31 December 2026
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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	31 December 2023
Review	2	30 September 2021	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 Connexis - Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.