

Title	Use dig-out and stabilisation or modification methods for road maintenance tasks		
Level	4	Credits	7

Purpose	People credited with this unit standard are able to: prepare to carry out road maintenance tasks; carry out dig-outs for road maintenance; and apply stabilisation or modification for road maintenance.
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Classification	Infrastructure Works > Road Maintenance
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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 **Definitions**
Dig-out refers to restoration of road using excavation, backfilling, and compaction.
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 carry out road maintenance tasks.

Range dig-out, stabilisation or modification.

Performance criteria

1.1 Area to be maintained is identified and method is selected and confirmed.

1.2 Site conditions are checked and confirmed as suitable for restoration to take place.

1.3 Plant, equipment, and materials are selected.

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

Carry out dig-outs for road maintenance.

Performance criteria

2.1 Identified pavement failure is excavated including trimming, preshaping, and preparation for backfilling.

2.2 Testing is carried out and suitability for backfilling is determined.

2.3 Area is backfilled, compacted, and shaped to specified bearing capacity and finished surface levels.

2.4 Surfaces are laid, shaped, and compacted.

Outcome 3

Apply stabilisation or modification for road maintenance.

Range two of – cement, lime, geotextiles, geotech grid.

Performance criteria

3.1 Material is prepared for stabilisation or modification.

Range preparation may include – excavation, trimming, shaping.

- 3.2 Stabilising or modification material is applied to achieve a uniformly stable surface.
- 3.3 Surface profile is milled, shaped, and trimmed.
- 3.4 Surfaces are laid, shaped, and compacted.

Replacement information	This unit standard replaced unit standard 11303 and unit standard 11306.
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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
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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 Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.