

Title	Determine and confirm compaction requirements for civil infrastructure works		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to determine and confirm compaction requirements for civil infrastructure works.
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Classification	Infrastructure Works > Infrastructure Civil 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;
 - TNZ B/02: 2005, *Specification for Construction of Unbound Granular Pavement Layers*;
 - TNZ M/04: 2006, *Specification for Basecourse Aggregate*;
 - TNZ F/01 *Specification for earthworks construction*;
 - TNZ T/01 *Benkelman beam deflection measurements*; available from www.nzta.govt.nz;
 - NZS 4402.1:1986: *Methods of testing soils for civil engineering purposes - Preliminary and general*; available from www.standards.govt.nz;
 - and all subsequent amendments and replacements.
- 3 **Definition**
Industry requirements refer to 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 and Waka Kotahi New Zealand Transport Agency specifications and guidelines.

Outcomes and performance criteria

Outcome 1

Determine and confirm compaction requirements for civil infrastructure works.

Performance criteria

- 1.1 Materials to be compacted and compaction requirements are confirmed in accordance with site conditions.
- 1.2 Compaction techniques to be used are confirmed in accordance with compaction requirements, soil type, and soil moisture level.
- 1.3 Compaction equipment is selected in terms of suitability for the technique to be used.
- 1.4 Equipment safety checks are confirmed as completed.
- 1.5 Primary and secondary compaction techniques are determined and implemented to achieve the specified finished density.
- 1.6 Quality assurance testing is confirmed and actioned in accordance with contract specifications.
- 1.7 Results of testing are confirmed, and the appropriate action is taken in accordance with the specified density.

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	29 July 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.