

Title	Describe road construction materials and their compaction		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to describe road construction materials and their compaction.
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Classification	Infrastructure Works > Infrastructure Civil Works
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Available grade	Achieved
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Guidance Information

The requirements within the following specification documents must be complied with as appropriate to the context of assessment for this unit standard:

TNZ B/02: 2005, Specification for *Construction of Unbound Granular Pavement Layers*,

TNZ M/04: 2006, *Specification for Basecourse Aggregate*; available at

<http://www.nzta.govt.nz/resources/results.html>.

Outcomes and performance criteria

Outcome 1

Describe road construction materials.

Range materials – clay, silt, sand, gravel; natural, manufactured (where applicable).

Performance criteria

- 1.1 Materials are described in terms of typical uses in road construction.
- 1.2 Materials are described in terms of particle size.
- 1.3 Materials are described in terms of the relationship between water content and density and suitability for road construction.

Outcome 2

Describe compaction for road construction materials.

Performance criteria

2.1 Primary compaction and secondary compaction are described in terms of order of use and effect on materials.

Range materials – clay, silt, sand, gravel; natural, manufactured (where applicable); primary compaction includes frequency and amplitude.

2.2 Compaction is described in terms of equipment and/or methods used and situations of use.

Range traffic, walk-behind rollers, ride-on rollers, pneumatic tyre rollers, combination rollers, sheep foot rollers, square foot rollers, dynamic compaction, soil preloading.

2.3 Compaction is described in terms of effects on layer thickness and moisture content.

Replacement information	This unit standard and unit standard 20477 were replaced by unit standard 31445.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 2009	31 December 2016
Review	2	19 February 2015	31 December 2021
Review	3	27 September 2018	31 December 2021

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>.