

<b>Title</b>	<b>Operate a bulldozer on infrastructure worksites</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>20</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe bulldozers; prepare for bulldozing operations; manoeuvre and control a bulldozer on site; construct and spread stockpiles and heaps using a bulldozer; clear site using a bulldozer; cut and batter materials using a bulldozer; and complete post-operational procedures for a bulldozer.
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<b>Classification</b>	Infrastructure Works > Civil Plant Operation
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Class of driver licence and any driver licence endorsement appropriate for the vehicle being driven.
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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 relevant to this unit standard includes – Health and Safety at Work Act 2015, and all subsequent amendments and replacements.
- 3 Definitions  
*Batter* refers to an earthworks cut or wall with a sloping face.  
*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.

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### Outcomes and performance criteria

#### Outcome 1

Describe bulldozers.

**Performance criteria**

- 1.1 Bulldozers and their attachments and controls are described in terms of purpose and function, ground engaging tools (GET), and correct operation.
- 1.2 Types and weights of bulldozer are described in terms of their capabilities and limitations, and suitability for specific infrastructure works tasks.
- 1.3 Bulldozers are described in terms of their safety features and requirements for safe use.

**Outcome 2**

Prepare for bulldozing operations.

**Performance criteria**

- 2.1 Job instructions are confirmed.
- 2.2 Pre-start check of machine, 360 walkaround, and check of GET are carried out prior to starting work and any required action is taken.
- 2.3 A risk assessment of the site and machine is carried out, and any identified hazards are eliminated or minimised.
- 2.4 Site communication protocols are confirmed.  
  
Range protocols include – toolbox meetings, communicating hazards, communicating work activities for the day.

**Outcome 3**

Manoeuvre and control a bulldozer on site.

**Performance criteria**

- 3.1 Bulldozer is manoeuvred on site with adequate clearances in accordance with job instructions.
- 3.2 Bulldozer is controlled on a level site.
- 3.3 Bulldozer is manoeuvred on site with smoothness of movement and machine stability.
- 3.4 Structures are preserved when manoeuvring bulldozer.
- 3.5 Machine production is maintained at maximum usage relative to the task and the safety of the operator and machine.

3.6 Bulldozer is operated safely during site operations.

Range site operations may include but are not limited to – pushing out in a fill, pushing out in a stockpile area, slot pushing, ripping, pushing out heaps, vegetation clearing, topsoil spreading, stripping, managing work areas;  
evidence of two different site operations is required.

#### **Outcome 4**

Construct and spread stockpiles and heaps using a bulldozer.

##### **Performance criteria**

4.1 Stockpiles and heaps are constructed safely and in accordance with job instructions.

4.2 Stockpiles and heaps are spread using the blade to produce a level surface in accordance with job instructions.

#### **Outcome 5**

Clear site using a bulldozer.

##### **Performance criteria**

5.1 Site set-out is confirmed prior to commencement of work in accordance with job instructions.

5.2 Site is cleared using the blade in accordance with job instructions.

Range may include – windrows, stacking, heaping.

#### **Outcome 6**

Cut and batter materials using a bulldozer.

##### **Performance criteria**

6.1 Batter slope is cut and trimmed in accordance with job instructions.

6.2 Materials are shaped and trimmed in accordance with job instructions.

6.3 Topsoil respread is completed.

#### **Outcome 7**

Complete post-operational procedures for a bulldozer.

**Performance criteria**

- 7.1 Bulldozer is parked, shut down safely, and secured, and daily maintenance is carried out.
- 7.2 Bulldozer is inspected, 360 degree walk around is completed, and any faults are reported.

<b>Replacement information</b>	This unit standard replaced unit standard 6463.
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<b>Planned review date</b>	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	30 May 2000	31 December 2014
Review	2	25 September 2006	31 December 2015
Review	3	19 February 2015	31 December 2021
Review	4	27 September 2018	31 December 2023
Review	5	30 September 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.