Title	**Operate a self-propelled, bladed compactor on infrastructure worksites**		
Level	**3**	**Credits**	**20**

Purpose	People credited with this unit standard are able to: describe self-propelled, bladed compactors; prepare for self-propelled, bladed compactor operations; manoeuvre and control a self-propelled, bladed compactor on infrastructure worksites; use a self-propelled, bladed compactor to spread and compact materials on infrastructure worksites; and complete post-operational procedures for a self-propelled, bladed compactor.

Classification	Infrastructure Works > Civil Plant Operation

Available grade	Achieved

Prerequisites	Class of driver licence and any driver licence endorsement appropriate for the vehicle being driven.

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;
- *The Official New Zealand Truck Loading Code:2017*; 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

Describe self-propelled, bladed compactors.

Performance criteria

1.1 Self-propelled, bladed compactors and their attachments and controls are described in terms of purpose and function, and correct operation.

1.2 Types and weights of self-propelled, bladed compactor are described in terms of their capabilities and limitations, and suitability for specific infrastructure work tasks.

1.3 Self-propelled, bladed compactors are described in terms of their safety features and requirements for safe use.

Outcome 2

Prepare for self-propelled, bladed compactor operations.

Performance criteria

2.1 Job instructions are confirmed.

2.2 Pre-start check of machine and 360 walkaround are carried out prior to starting work and any required actions are taken.

Range machine operation, damage, wear, and tear, cutting edges.

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.

Outcome 3

Manoeuvre and control a self-propelled, bladed compactor on infrastructure worksites.

Performance criteria

3.1 Self-propelled, bladed compactor is manoeuvred on site with adequate clearances and in accordance with job instructions.

3.2 Self-propelled, bladed compactor is controlled on different site conditions in accordance with job instructions.

Range slopes, rough ground.

3.3 Machine controls are used to produce smooth movement.

3.4 Structures are preserved when manoeuvring self-propelled, bladed compactor.

3.5 Machine production is maintained at maximum usage relative to the task and the safety of the operator and machine.

Range lead times, engine revolutions, travel speeds, haul distances.

3.6 Cooperation of compactor operator with operators of other plant on the worksite took place.

Outcome 4

Use a self-propelled, bladed compactor to spread and compact materials on infrastructure worksites.

Performance criteria

4.1 Material is spread using the blade to produce a level surface in accordance with job instructions.

4.2 Self-propelled, bladed compactor is used for compaction and overlaps in accordance with job instructions.

4.3 Specified requirements for area coverage and depth measurement are met in accordance with job instructions.

4.4 Self-propelled, bladed compactor is used to compact material adjacent to structures, avoiding risk of damage to machine.

Outcome 5

Complete post-operational procedures for a self-propelled, bladed compactor.

Performance criteria

5.1 Self-propelled, bladed compactor is parked, shut down safely and secured, and daily maintenance is carried out.

5.2 Self-propelled, bladed compactor is inspected, and any faults are reported.

Planned review date	31 December 2026

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 September 2010	31 December 2016
Review	2	19 February 2015	31 December 2021
Review	3	27 September 2018	31 December 2023
Review	4	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.