Title	**Design, erect, and dismantle loading platforms**		
Level	**5**	**Credits**	**15**

Purpose	This unit standard is for people who have intermediate scaffolding skills and who want to develop their scaffolding skills to an advanced level. People credited with this unit standard are able to: – design loading platforms; – erect loading platforms; – check the structure is compliant and complete GPG inspection report; and – dismantle loading platforms.

Classification	Lifting Equipment > Advanced Scaffolding

Available grade	Achieved

Guidance Information

1 This unit standard has been developed for learning and assessment on-job or off-job in a simulated environment.

2 All tasks must be carried out in accordance with:
- a quality management systems;
- b designer's requirements and manufacturers' operating instructions; legislation, regulations, bylaws, Health and Safety at Work Act 2015, and Health and Safety in Employment Regulations 1995;
- c the most up to date version of the *Good Practice Guidelines – Scaffolding in New Zealand* (GPG), 2016 available from https://www.worksafe.govt.nz/topic-and-industry/working-at-height/scaffolding-in-new-zealand/; and all subsequent amendments and replacements.

3 Definitions
Client refers to an individual or representative of a company who commissions a particular scaffold or scaffolding structure to be erected, or is an end user of the scaffold or scaffolding structure;
Loading platforms refer to platforms on a scaffold which are built to take repeated dynamic load and to store materials and equipment. The design, erection, and dismantling of loading platforms is an advanced scaffolding function which may be achieved with the use of either: tube and fitting scaffolding components or proprietary systems. The specifications of loading platforms often need to be checked by a chartered professional engineer. The circumstances in which this is required are set out in the GPG or, for proprietary systems, in the manufacturer's specifications;

Restore or repair refers to the steps taken to ensure the end state of the supporting structure in accordance with site requirements*;*
S*caffold plan* refers to a key design document prepared by the candidate and used as a basis for the erection of a particular scaffold;
Scaffolding is as defined in the GPG and in the Health and Safety in Employment Regulations 1995.

4 Training and assessment
During assessment against this unit standard, the erection and dismantling of scaffolds and scaffolding structures must take place under the supervision of a certified scaffolder who holds a current Certificate of Competence for the scaffolding concerned.

5 Range
Evidence is required for two loading platforms, one erected using tube and fitting components, and one erected using a proprietary system with additional tube and fitting components if required. At least one of these loading platforms must be a special duty loading platform.

6 Recommended skills and knowledge
New Zealand in Certificate in Scaffolding (Level 4) [Ref: 2632], or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Design loading platforms.

Performance criteria

1.1 Confirm loading platform scaffold requirements with the client or chartered professional engineer.

Range includes – confirmation of load type and nature (dead, live, dynamic), establishing maximum load, extension distance; may include but is not limited to – movement requirements and methods on the platform, duration of use, access to points of attachment.

1.2 Check the supporting scaffold for its capacity to support the loading platform.

Range includes but is not limited to – confirmation of structural integrity; identification of attachment, tie, and bracing points including additional attachment and bracing requirements for loading needs.

1.3 Determine design parameters including, where necessary, meeting chartered professional engineer's requirements.

Range includes but is not limited to – capacity of ground to support loading platform, loading calculations, access, the placement and nature of bracing and attachment points including the presence of additional standards and ledgers and bracing for load support, intended use, regulatory requirements, safety margins.

1.4 Prepare design documents including, where necessary, incorporating advice from a chartered professional engineer.

Range includes – scaffolding plan, gear list, and, where necessary, engineer's requirements;
may include but is not limited to – computer-aided design printouts, work schedules, staffing allocation, WorkSafe New Zealand and local authority approvals, workplace-specific documentation.

1.5 Submit where necessary, the scaffold plan and associated design documents to a chartered professional engineer for checking and make adjustments as required.

Outcome 2

Erect loading platforms.

Performance criteria

2.1 Confirm design parameters on-site before work begins in accordance with the scaffold plan.

Range includes but is not limited to – ground conditions, bracing and tie points and their structure, load weights and movement, bracing methods, direction and magnitude of forces, movement of personnel and materials.

2.2 Source the necessary equipment in accordance with the scaffold plan.

2.3 Base out the scaffold in accordance with the scaffold plan.

2.4 Erect lifts in accordance with the scaffold plan.

2.5 Brace and plank the scaffold in accordance with the scaffold plan.

2.6 Erect, brace and plank subsequent scaffolding and components in accordance with the scaffold plan.

Range may include but is not limited to – ramps for access and movement, gear for moving equipment, access points from the ground or associated scaffolds.

Outcome 3

Check the structure is compliant and complete GPG inspection report.

Performance criteria

3.1 Check the structure for compliance in accordance with the scaffold plan.

3.2 Complete a GPG inspection report.

3.3 Make changes to the structure to ensure compliance and amend the GPG inspection report accordingly.

Outcome 4

Dismantle loading platforms.

Performance criteria

4.1 Clear the scaffold of load.

4.2 Remove scaffolding components, bracing, and ties progressively from the outer and top-most points first.

4.3 Remove structural members and fittings progressively from the outer and top-most points first while maintaining protection from fall risk.

4.4 Restore or repair attachment points.

Replacement information	This unit standard, unit standard 26598, unit standard 26599, unit standard 26600, and unit standard 26602 replaced unit standard 4209 and unit standard 4211.

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	21 July 2011	31 December 2016
Review	2	16 July 2015	31 December 2025
Review	3	24 February 2022	N/A
Revision	4	24 August 2023	N/A

Consent and Moderation Requirements (CMR) reference	0003

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact the Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.