

Title	Design, erect, and dismantle a covered way and gantry		
Level	5	Credits	15

Purpose	<p>This unit standard is for people who have intermediate scaffolding skills and who want to develop their scaffolding skills to an advanced level.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – design a covered way and gantry; – erect a covered way and gantry; – check the structure is compliant and complete GPG inspection report; and – dismantle a covered way and gantry.
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Classification	Lifting Equipment > Advanced Scaffolding
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Available grade	Achieved
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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;

Gantries refer to static structures that are primarily intended to support a protection deck or portable building. A gantry can be constructed from scaffolding, structural steel, or timber;

Scaffold plan is 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 design, 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 one covered way constructed for protection from falling debris or similar; and two gantries, one of which should be an engineer-designed heavy duty gantry.
- 6 Recommended skills and knowledge
New Zealand Certificate in Scaffolding (Level 4) [Ref: 2632], or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Design a covered way and gantry.

Performance criteria

- 1.1 Confirm covered way or gantry scaffold requirements with the client or chartered professional engineer.
- Range includes – confirmation of dead load calculation, establishing maximum load;
may include but is not limited to – intended purpose, access to points of attachment and, for covered ways, area to be protected, public access including traffic and local body pedestrian requirements, cladding requirements.
- 1.2 Determine design parameters including, where necessary, meeting chartered professional engineer's requirements.
- Range includes but is not limited to – calculation of loads, duration, support requirements, regulatory requirements, safety margins.
- 1.3 Prepare design documents including, where necessary, incorporating advice from a chartered professional engineer.
- Range includes scaffold 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.

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

Outcome 2

Erect a covered way and gantry.

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 points and their structure, load weights, 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, clad, plank or cover the scaffold in accordance with the scaffold plan.
- 2.6 Erect, brace, clad, plank or cover subsequent scaffolding and protective components in accordance with the scaffold plan.
- Range may include but is not limited to – protective railing and coverings, ramps for access and movement, 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 a covered way and gantry.

Performance criteria

- 4.1 Secure the area surrounding the scaffold against public and unauthorised access.
- 4.2 Clear the scaffold of load.
- 4.3 Remove scaffolding components, cladding, and/or planks, bracing and ties progressively from the outer and top-most points first.
- 4.4 Remove structural members and fittings progressively from the outer and top-most points first while maintaining protection from fall risk.

Replacement information	This unit standard, unit standard 26598, unit standard 26599, unit standard 26601, and unit standard 26602 replaced unit standard 4209 and unit standard 4211.
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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	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
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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 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.