

<b>Title</b>	<b>Design, erect, and dismantle a covered way and gantry</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	<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"> <li>– design a covered way and gantry;</li> <li>– erect a covered way and gantry;</li> <li>– check the structure is compliant; and</li> <li>– dismantle a covered way and gantry.</li> </ul>
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<b>Classification</b>	Lifting Equipment > Advanced Scaffolding
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<b>Available grade</b>	Achieved
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<b>Entry information</b>	
<b>Critical health and safety prerequisites</b>	New Zealand Certificate in Scaffolding (Level 4) [Ref: 2632], or demonstrate equivalent knowledge and skills.

**Explanatory notes**

- 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 the Best Practice Guide (BPG) based on:
  - a quality management systems;
  - b designer’s requirements and manufacturers' operating instructions; and government and local government legislation, regulations, bylaws, Health and Safety in Employment Act 1992, and Health and Safety in Employment Regulations 1995;
  - c the most up to date version of the: <http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items/scaffolding-best-practice-guideline-for-scaffolding-in-new-zealand>, and all subsequent amendments and replacements.
- 3 Definitions  
*Client:* 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*: 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*: a key design document prepared by the candidate and used as a basis for the erection of a particular scaffold;

*Scaffolding* as defined in the BPG and in the Health and Safety in in Employment Regulations 1995.

### 3 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.

### 4 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.

## Outcomes and evidence requirements

### Outcome 1

Design a covered way and gantry.

### Evidence requirements

1.1 Confirm covered way or gantry scaffold requirements with the client, or chartered 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 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 engineer.

Range includes scaffold plan, gear list, and, where necessary, engineer's requirements;  
may include but is not limited to – CAD 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 engineer for checking and adjustments made as required.

## **Outcome 2**

Erect a covered way and gantry.

### **Evidence requirements**

- 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.

### **Evidence requirements**

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

- 3.2 Complete a BPG inspection report.

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

## **Outcome 4**

Dismantle a covered way and gantry.

### **Evidence requirements**

- 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.

<b>Replacement information</b>	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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<b>Planned review date</b>	31 December 2019
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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	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0183
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

#### Comments on this unit standard

Please contact The Skills Organisation at [reviewcomments@skills.org.nz](mailto:reviewcomments@skills.org.nz) if you wish to suggest changes to the content of this unit standard.