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| <b>Title</b> | <b>Erect and dismantle simple cantilevers from an existing scaffold</b> |                |          |
| <b>Level</b> | <b>4</b>  | <b>Credits</b> | <b>6</b> |

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| <b>Purpose</b> | <p>This unit standard is for people who have elementary scaffolding skills and who want to develop their scaffolding skills to an intermediate level.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– plan and prepare to erect simple cantilevers;</li> <li>– erect simple cantilevers;</li> <li>– check the stability and compliance of the structure, and complete a GPG report; and</li> <li>– dismantle simple cantilevers.</li> </ul> |
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| <b>Classification</b> | Lifting Equipment > Intermediate Scaffolding |
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| <b>Available grade</b> | 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. Design, erection, and dismantlement of scaffolds and scaffolding structures in this unit standard must take place under the direct supervision of a scaffolder who holds a current Certificate of Competence for the scaffolding concerned.
- 2 All tasks are to be carried out in accordance with:
  - a quality management systems;
  - b designer requirements and manufacturer operating instructions; legislation, regulations, bylaws, Health and Safety at Work Act 2015, and Health and Safety in Employment Regulations 1995 or its replacement;
  - 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

*Cantilevers* refer to structures that project outward at height from an existing structure or scaffold. For the purposes of this unit standard 'simple cantilevers' are cantilevers of no more than a single tube length projection which are cantilevered from an existing scaffold (not a support structure) and constructed only of regular scaffolding components. This unit standard therefore only covers the use of a simple and straightforward cantilevered structure, normally from the end or side of an existing bay, which is integral or incidental to wider applications rather than forming the essence of the scaffolding task itself. More complex and larger scale cantilever applications are an advanced scaffolding function.

*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.

*Needle* refers to a cantilevered structural member that supports a cantilevered scaffold or other structure. For the purposes of this unit standard, needles are constructed of standard scaffolding components and cantilevered from an existing scaffold.

*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

Evidence is required for at least three simple cantilevers, including one using tube and coupler components, and one using proprietary or pre-engineered.

### 5 Recommended skills and knowledge

New Zealand Certificate in Scaffolding (General) (Level 3) [Ref: 3708], or demonstrate equivalent knowledge and skills.

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## Outcomes and performance criteria

### Outcome 1

Plan and prepare to erect simple cantilevers.

#### Performance criteria

1.1 Confirm cantilever requirements with the supervisor or client.

Range includes but is not limited to – placement in relation to the scaffold, bracing points, engineering requirements if necessary, additional tie and bracing requirements on the supporting scaffold.

1.2 Draw a scaffold plan.

Range includes but is not limited to – placement in relation to the scaffold, bracing points, engineering requirements if necessary, additional tie and bracing requirements on the supporting scaffold.

- 1.3 Determine and source the necessary equipment in accordance with the scaffold plan.

## Outcome 2

Erect simple cantilevers.

### Performance criteria

- 2.1 Position and attach needles to the supporting scaffold in accordance with the scaffold plan.
- 2.2 Support and brace needles in accordance with the scaffold plan.
- Range includes the following four methods of “getting out” – carry out along the needle, carry out planks, springboard, half-lift from below;  
may include – where possible spurs should be in tension.
- 2.3 Apply additional bracing and/or support scaffold in accordance with the scaffold plan.
- Range may include but is not limited to – counterweights, construction of raker bays.
- 2.4 Construct additional ties between the scaffold and its supporting structure in accordance with the scaffold plan.
- 2.5 Erect subsequent scaffolding components progressively on the cantilever in accordance with the scaffold plan.
- Range may include but is not limited to – bracing, guardrails, kickboards, toeboards.

## Outcome 3

Check the stability and compliance of the structure, and complete a 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 simple cantilevers.

## Performance criteria

- 4.1 Clear the cantilevers of load from the extremities inward.
- 4.2 Remove scaffolding components, and their bracing and ties, progressively back to the supporting members.
- 4.3 Remove supporting members and their bracing progressively back to the supporting scaffold.

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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       | 21 July 2011     | 31 December 2016         |
| Review                | 2       | 16 July 2015     | 31 December 2019         |
| Rollover and Revision | 3       | 23 November 2017 | 31 December 2025         |
| Review                | 4       | 24 February 2022 | N/A                      |
| Revision              | 5       | 24 August 2023   | N/A                      |

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