

<b>Title</b>	<b>Erect, operate, and dismantle mast climbers</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<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 for the erection of a mast climber;</li> <li>– erect a mast climber;</li> <li>– check the structure is compliant and complete a GPG inspection report;</li> <li>– operate a mast climber; and</li> <li>– dismantle a mast climber.</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; and 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.

*Mast climbers* are as defined in the GPG, for example mast climbing work platforms used for temporary purposes. A mast climber mechanically raises and lowers itself on single, double or multi-masts, creating a small platform by which to move people and/or materials and from which work can be conducted.

*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 two separate mast climber assemblies in different situations. Where possible mast climbers of different types should be used.

Assessment should not include scaffolding requiring a Chartered Professional Engineer to certify the adequacy of the design prior to the erection of the scaffold.

#### 5 Recommended skills and knowledge

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

## Outcomes and performance criteria

### Outcome 1

Plan and prepare for the erection of a mast climber.

#### Performance criteria

1.1 Confirm erection requirements with the work supervisor or client.

Range includes – the load to be carried or supported, operating height(s), offset distance, tie points to a supporting structure, engineering requirements;  
may include but is not limited to – ground conditions, engineering requirements.

1.2 Draw a layout plan.

Range must include but is not limited to – the load to be carried or supported, operating height(s), mast security, off set distance, tie points to a supporting structure, accuracy of measurements to ensure square and level, consistency with manufacturer's specifications.

### Outcome 2

Erect a mast climber.

#### Performance criteria

2.1 Secure and confirm the base as square and level in accordance with the layout plan.

2.2 Add and level mast sections progressively in accordance with the layout plan.

2.3 Tie mast sections progressively to a supporting structure in accordance with the layout plan.

**Outcome 3**

Check the structure is compliant and complete a GPG inspection report.

**Performance criteria**

- 3.1 Check the structure for compliance with the GPG inspection report.
- 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**

Operate a mast climber.

**Performance criteria**

- 4.1 Move load and/or personnel safely.
- 4.2 Operate a mast climber.

**Outcome 5**

Dismantle a mast climber.

**Performance criteria**

- 5.1 Tie and remove the mast sections progressively from the top down.
- 5.2 Dismantle and remove the platform, including the base if required.

<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 November 2008	31 December 2016
Review	2	16 July 2015	31 December 2019
Rollover and Revision	3	23 November 2017	31 December 2023
Review	4	24 February 2022	N/A

<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>.

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**Comments on this unit standard**

Please contact the Waihanga Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihanga.nz](mailto:qualifications@waihanga.nz) if you wish to suggest changes to the content of this unit standard.