Title	**Erect, operate, and dismantle proprietary winches on scaffolding**		
Level	**4**	**Credits**	**6**

Purpose	This unit standard is for people who have elementary scaffolding skills and who want to develop their scaffolding skills to an intermediate level. People credited with this unit standard are able to: – plan and prepare for the erection of a winch on scaffolding; – assemble, and erect a winch on scaffolding; – check the stability and compliance of the structure and complete a GPG inspection report; – operate a winch on scaffolding using safe work practices; and – dismantle a winch on scaffolding.

Classification	Lifting Equipment > Intermediate Scaffolding

Available grade	Achieved

This unit standard is expiring

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.
Scaffold plan is a key design document prepared by the candidate and used as a basis for the erection of a particular scaffold.

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Scaffolding is as defined in the GPG and in the Health and Safety in Employment Regulations 1995.
Winches refer to proprietary devices installed on scaffolding to move equipment and materials. The operation of winch may be electrical.

4 Training and assessment
This unit standard covers loads lifted with proprietary winches attached to scaffolding. This unit standard is to be assessed using proprietary winches designed for safe working loads of less than 250 kilograms. The loads are to be of weights not exceeding 250 kilograms and to heights within ranges specified by manufacturer instructions. Loads beyond these specifications are notifiable and are conducted by qualified riggers from scaffold strengthened to the design requirements of a Chartered Professional Engineer.

This unit standard does not cover cantilevered platforms or hoists and specifically excludes the lifting of people. However, winches with cantilevered arms may be used.

Evidence is required for one proprietary winch, and the structures and components associated with it.

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 winch on scaffolding.

Range includes – the weight and nature of the load to be carried, start and end points of lift, placement on the scaffold, clearway, ties and bracing including tie points to a supporting structure;
may include but is not limited to – fulcrum point, transverse bracing, or splicing of standard(s) and additional scaffolding such as platforms to support lifting operations and control functions and scaffolding to provide protection and access.

Performance criteria

1.1 Confirm the erection requirements with the work supervisor or client.

1.2 Draw a layout plan.

1.3 Identify types of winch that may be erected by a scaffolder.

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Outcome 2

Assemble, and erect a winch on scaffolding.

Performance criteria

2.1 Erect ties, bracing and any additional scaffolding in accordance with the layout plan.

2.2 Confirm the stability of the scaffold prior to assembly and attachment of the winch.

Range includes but is not limited to – security of additional scaffolding and ties.

2.3 Move and secure the winch and associated equipment, including safety equipment, to the correct location and scaffold in accordance with the layout plan.

2.4 Assemble and check the winch and associated safety equipment.

Range electrical winches include but are not limited to – a transformer or other Residual Current Device (RCD).

Outcome 3

Check the stability and compliance of the structure and complete a GPG inspection report.

Performance criteria

3.1 Check and confirm the stability of the winch and associated components with the layout plan, and any adjust as necessary.

Range includes but is not limited to – security of additional scaffolding and ties, attachment of the winch to the scaffold.

3.2 Check the entire structure for compliance with the GPG inspection report.

3.3 Complete a GPG inspection report.

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

Outcome 4

Operate a winch on scaffolding using safe work practices.

Performance criteria

4.1 Move the load using the erected winch.

4.2 Operate the winch on scaffolding.

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Outcome 5

Dismantle a winch on scaffolding.

Performance criteria

5.1 Dismantle and remove the winch and associated equipment safely.

5.2 Dismantle in sequence scaffolding components including ancillary scaffolding structures, bracing and ties.

Replacement information	This unit standard was replaced by skill standard 41211.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

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 2027
Review	4	24 February 2022	31 December 2027
Revision	5	24 August 2023	31 December 2027
Revision	6	25 September 2025	31 December 2027
Review	7	30 July 2026	31 December 2027

Consent and Moderation Requirements (CMR) reference	0120

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

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