

| | | | |
|--------------|---|----------------|----------|
| Title | Use, install and disestablish temporary proprietary height safety systems when working at height | | |
| Level | 3 | Credits | 4 |

| | |
|----------------|--|
| Purpose | <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – identify anchor points and prepare to install a temporary proprietary height safety system; – install horizontal and vertical temporary proprietary height safety systems; – use temporary proprietary height safety systems; and – disestablish temporary proprietary height safety systems. |
|----------------|--|

| | |
|-----------------------|--|
| Classification | Lifting Equipment > Industrial Rope Access |
|-----------------------|--|

| | |
|------------------------|----------|
| Available grade | Achieved |
|------------------------|----------|

| | |
|----------------------|---|
| Prerequisites | Unit 23229, <i>Use safety harness system when working at height</i> , or demonstrate equivalent knowledge and skills. |
|----------------------|---|

Guidance Information

- 1 All tasks must be carried out in accordance with:
 - a quality management systems;
 - b designer's requirements and manufacturer's operating instructions; and legislation, regulations, bylaws, Health and Safety at Work Act 2015, and New Zealand Standards;
 - c *Industrial Rope Access in New Zealand: Best Practice Guidelines*, May 2012, available from the website <https://worksafe.govt.nz/>; and
 - d AS/NZS 1891 Parts 1 - 4: 2020 *Industrial fall-arrest systems and devices*; AS/NZS ISO 22846.1: 2020 *Personal equipment for protection against falls – Rope access systems, Part 1: Fundamental principles for a system of work*. New Zealand Standards are available from <http://www.standards.co.nz>, and their subsequent amendments.

- 2 Definitions

Hazards refer to occurrences, processes, substances or situations as determined by the organisation that are an actual or potential cause or source of harm associated with, but not limited to – process, activities, environment, equipment, materials, work organisation, site and facilities.

Workplace procedures refer to instructions to staff on policy and procedures, which are documented in written format and are available in the workplace. These requirements may include but are not limited to – site specific requirements, company quality management requirements, Approved Codes of Practice and guidelines, and legislative requirements.

- 3 For the purposes of this unit standard candidates are expected to work under pre-determined safety plans. For competencies required to plan a job where there is a risk of a fall, refer to Unit 23231, *Develop a safety plan to manage risks when individuals are working at height and fall prevention strategies are required*. For competencies required to develop a rescue plan, refer to Unit 23232, *Develop a rescue plan for recovery of a suspended individual after a fall*.
- 4 This unit standard excludes installation of permanent horizontal lifeline systems. It also excludes the use of lanyards as this is included in Unit 23229, *Use safety harness system when working at height* which is the prerequisite to this unit standard.
- 5 Training and assessment
People working towards, and being assessed against, this unit standard should note that work in the industrial rope access industry usually takes place at heights well above ground level and, therefore, requires a level of physical fitness and ability to work at heights.

Outcomes and performance criteria

Outcome 1

Identify anchor points and prepare to install a temporary proprietary height safety system.

Range at least one horizontal and one vertical temporary proprietary height safety system.

Performance criteria

- 1.1 Identify and confirm safe proprietary fall arrest system anchor points from written plans and/or with the work supervisor.
- 1.2 Establish ratings, direction of loading and anchor point limitations to ensure consistency with the height work to be undertaken.
- 1.3 Access anchor points progressively and check for condition and currency.
- 1.4 Select, check for flaws and lay out equipment in accordance with safety requirements.

Outcome 2

Install horizontal and vertical temporary proprietary height safety systems.

Range at least one horizontal and one vertical temporary proprietary height safety system.

Performance criteria

2.1 Assess hazards associated with system installation and develop a suitable work method to ensure safety.

Range hazards may include but are not limited to – restricted access, safe working distance from edges, security of footing, potential fall hazards.

2.2 Select and rig slings and compatible hardware and undertake the work.

Range where knots are required to be tied, they must include but are not limited to – figure 8 knot.

2.3 Install the proprietary fall arrest system and the height at which work is to be undertaken.

Outcome 3

Use temporary proprietary height safety systems.

Range at least four of – work positioning system, fall arrest system in restraint mode, proprietary horizontal or vertical safety system, temporary horizontal or vertical safety system, personal fall arrest rope grab system, inertia reel system, inertia reel systems with a handle or winch for retrieval.

Performance criteria

3.1 Assess and take steps to control hazards associated with the system.

Range hazards may include but are not limited to – system access, fall clearance, connection to system, pendulum effect.

3.2 Demonstrate under supervision, the actions required of a user in retrieval of a worker trapped within the height safety system.

3.3 Hook the temporary proprietary fall arrest system at the required height.

3.4 Utilise the proprietary fall arrest system consistent with the height at which work is undertaken.

3.5 Detach the temporary proprietary fall arrest system.

Outcome 4

Disestablish temporary proprietary height safety systems.

Range at least one horizontal and one vertical temporary proprietary fall arrest system.

Performance criteria

- 4.1 Assess hazards and develop a suitable work method to ensure safety.
- Range hazards may include but are not limited to – restricted access, safe working distance from edges, security of footing, potential fall hazards.
- 4.2 Unload the system in accordance with workplace procedures.
- 4.3 Access anchor points progressively and check for condition.
- 4.4 Disestablish the temporary proprietary fall arrest system.
- 4.5 Disestablish, check for flaws, log and store equipment in accordance with workplace procedures.
- 4.6 Report flaws in equipment and anchors to the work supervisor in accordance with workplace procedures.

| | |
|----------------------------|------------------|
| Planned review date | 31 December 2025 |
|----------------------------|------------------|

Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|-----------------------|---------|-------------------|--------------------------|
| Registration | 1 | 28 January 2000 | 31 December 2016 |
| Rollover and Revision | 2 | 19 September 2008 | 31 December 2016 |
| Review | 3 | 20 May 2011 | 31 December 2016 |
| Review | 4 | 16 July 2015 | 31 December 2022 |
| Review | 5 | 29 April 2021 | N/A |

| | |
|--|------|
| Consent and Moderation Requirements (CMR) reference | 0003 |
|--|------|

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

Comments on this unit standard

Please contact The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.