

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

Purpose	People credited with this unit standard are able to: <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.
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Classification	Lifting Equipment > Industrial Rope Access
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Available grade	Achieved
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Critical health and safety prerequisites	Unit 23229, <i>Use a safety harness system when working at height or demonstrate equivalent knowledge and skills</i> ; or demonstrate equivalent knowledge and skills.
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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 New Zealand Standards;
 - c the most up to date version of the <http://www.business.govt.nz/worksafe/information-guidance/pdf-documents-library/industrial-rope-access-guidelines.pdf> and all subsequent amendments and replacements.
 - d New Zealand Standards: AS/NZS 1891.1:2007 *Industrial fall-arrest systems and devices - Harnesses and ancillary equipment*, AS/NZS 1891.2:2001 *Industrial fall-arrest systems and devices - Horizontal lifeline and rail systems*; AS/NZS 1891.3:1997 *Industrial fall-arrest systems and devices - Fall arrest devices*; AS/NZS 1891.4:2009 *Industrial fall-arrest systems and devices - Selection, use and maintenance*.
BPG Working from height: 2012. New Zealand Standards are available from <http://www.standards.co.nz>, or their subsequent amendments.

Appropriate European Normative (EN) standards where they address matters not covered by AS/NZS 1891.4:2009 or where complete systems of fall protection are entirely covered by EN standards.

3 Definitions

Best practice: as laid out in AS/NZS 1891.4:2009 *Industrial fall-arrest systems and devices - Selection, use and maintenance*.

Hazards 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.

Company requirements: include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements which may apply across the company or to a specific site. Requirements are documented in the company's health and safety plans, contract work programmes, quality assurance programmes, policies, and procedural documents.

Temporary proprietary height safety system (in this unit standard) is pre-engineered or is a simple system for the support of a single user utilising standard equipment. Such systems are normally able to be installed by an individual for personal use without the need for extensive tools or equipment.

Anchor points: structures rated to withstand the expected shock loading of a person in a fall-arrest situation.

- 4 This unit standard is for people who need to use proprietary fall arrest systems for safe access in trades, maintenance and construction applications. While it is useful for professional industrial rope access operators and riggers, it is primarily aimed at those who need the knowledge and skills to ensure their own safe access to complete work tasks at height.
- 5 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*.
- 6 The checking of equipment in this unit standard is in terms of routine organisational procedures relating to checking equipment necessary for the task immediately at hand and does not imply that candidates are competent to inspect equipment in wider contexts or to certify it for use by others.
- 7 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 a safety harness system when working at height* which is the prerequisite to this unit standard.

8 Assessment

For assessment against this unit standard the expectation is that candidates will be told from which safe anchor points or from amongst which safe anchor points a proprietary fall arrest system is to be installed. Assessment must be carried out in a supervised environment, at a minimum height of 2 metres.

Outcomes and evidence requirements

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.

Evidence requirements

- 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 in accordance with manufacturer's instructions and best practice.
- 1.3 Anchor points are accessed progressively and checked for condition and currency.
- 1.4 Select, check for flaws and lay out equipment in accordance with manufacturer's instructions and 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.

Evidence requirements

- 2.1 Assess hazards associated with system installation and suitable work method are developed 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, in accordance with manufacturer's instructions and best practice, and the height work to be undertaken.

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, in accordance with manufacturer's instructions best practice, and the height work 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.

Evidence requirements

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

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

- 3.2 Actions required of a user in retrieval of a worker trapped within the system, whether deployed or not, are demonstrated under close supervision.

- 3.3 Hook the temporary proprietary fall arrest system in accordance with manufacturer's instructions best practice, and the height work to be undertaken.

- 3.4 The candidate positions him/her self utilising the proprietary fall arrest system consistent with the height work to be undertaken and in accordance with manufacturer's instructions and best practice.

- 3.5 The temporary proprietary fall arrest system is detached from in accordance with manufacturer's instructions and best practice.

Outcome 4

Disestablish temporary proprietary height safety systems.

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

Evidence requirements

- 4.1 Assess hazards, 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 checked for condition.

- 4.4 Disestablish the temporary proprietary fall arrest system in accordance with manufacturer's instructions and best practice.
- 4.5 Disestablish, check for flaws, log and store equipment in accordance with manufacturer's instructions and workplace procedures.
- 4.6 Report flaws in equipment and anchors to the work supervisor in accordance with workplace procedures.

Planned review date	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	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	N/A

Consent and Moderation Requirements (CMR) reference	0003
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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 if you wish to suggest changes to the content of this unit standard