Title	Prepare, install, inspect, use and dismantle basic industrial rope access systems		
Level	3	Credits	20

Purpose	People credited with this unit standard are able to: – prepare site for setting up basic industrial rope access system and communicate with supervisor; – install basic industrial rope access systems; – inspect basic industrial rope access systems to ensure these are safe for use; – source, prepare and check basic industrial rope access systems for carrying to the worksite; – use basic industrial rope access systems; – dismantle basic industrial rope access; and – secure the worksite, gear and equipment.

Classification	Lifting Equipment > Industrial Rope Access

Available grade	Achieved

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
   Basic industrial rope access system/s provides access to carry out tasks at height or in other difficult-to-access situations.
   Enterprise procedures refer to practices and procedures that have been promulgated by the company or enterprise for use by their employees.
   Hazard management refers to an effective method for systematically identifying and regularly reviewing hazards in the place of work (existing, new and potential), to determine whether they are significant hazards and require further action.

3 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.

4 A minimum of two industrial rope access systems are required for the completion of this unit standard.

Outcomes and performance criteria

Outcome 1

Prepare site for setting up basic industrial rope access system and communicate with supervisor.

Performance criteria

1.1 Isolate site.

1.2 Implement safety procedures, hazard management, and communication with supervisor.

1.3 Set out exclusion zones.

Outcome 2

Install basic industrial rope access systems.

Performance criteria

2.1 Tie knots.

Range includes but not limited to – figure eight, figure nine, alpine butterfly, stopper knot.

2.2 Install industrial rope access and rescue systems in accordance with planned hazard management and control measures.

2.3 Confirm installation of industrial rope access systems is completed.

2.4 Clear site of surplus equipment and tools.

Outcome 3

Inspect basic industrial rope access systems to ensure these are safe for use.

Performance criteria

3.1 Inspect and confirm industrial rope access systems are safe for use.

Outcome 4

Source, prepare and check basic industrial rope access systems for carrying to the worksite.

Performance criteria

4.1   Source and prepare the equipment for carrying to the worksite.

          Range   equipment may include but is not limited to – harness, ascenders, descenders, connectors, helmet, ropes, pulleys, slings, personal protective equipment, fall arrest equipment, edge protection.

4.2   Check that all equipment has been inspected and logged prior to carrying to the worksite.

Outcome 5

Use basic industrial rope access systems.

Performance criteria

5.1   Check industrial rope access system attachments.

          Range   personal checks, buddy systems.

5.2   Use personal industrial rope equipment.

          Range   equipment may include but is not limited to – harness, ascenders and descenders, connectors, helmet, ropes, pulleys, and personal protective equipment, fall arrest equipment.

5.3   Use industrial rope access system techniques.

          Range   techniques include but are not limited to – descending, ascending, descend to ascend, ascend to descend, locking off, knot bypass, line change over, re-belay, bypass, re-direct, diversion; securing of tools, plant and equipment over 8 kg.

Outcome 6

Dismantle basic industrial rope access systems.

Performance criteria

6.1   Dismantle industrial rope access systems.

6.2   Confirm industrial rope access systems is free of damage and excessive wear.

6.3   Label, isolate and report damaged equipment.

6.4   Store equipment.

Outcome 7

Secure the worksite, gear and equipment.

Performance criteria

7.1   Secure equipment and protective clothing.

7.2   Secure and leave the worksite safe in accordance with enterprise 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	16 July 2015	31 December 2022
Review	2	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.