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| Title | Operate advanced industrial rope access systems | | |
| Level | 4 | Credits | 15 |

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| Purpose | <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – prepare and confirm equipment for use in advanced industrial rope access systems; – construct and operate advanced industrial rope access systems; – construct and operate improvised anchors; and – secure gear and site. |
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| Classification | Lifting Equipment > Industrial Rope Access |
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| Available grade | Achieved |
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Guidance Information

- 1 All tasks must be carried out in accordance with:
 - a quality management systems;
 - b designer's requirements and manufacturers' operating instructions; and government and local government 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 - 4:2009 *Industrial fall-arrest systems and devices*: AS/NZS 4488 parts 1 and 2:1997 *Industrial rope access systems*. New Zealand Standards are available from <http://www.standards.co.nz>, or their subsequent amendments.
- 2 **Definition**
Advanced industrial rope access systems require knowledge of mathematics and vector forces, as well as comprehensive training and guidance under the direct supervision of an advanced operator with extensive experience in the application of advanced techniques.
- 3 **Assessment**
 Those undertaking assessment 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 This unit standard has been developed for learning and assessment on-job or off-job in a simulated environment.

Outcomes and performance criteria

Outcome 1

Prepare and confirm equipment for use in advanced industrial rope access systems.

Performance criteria

1.1 Prepare and confirm equipment to be used meets the requirements of industrial rope access best practice guidelines and manufacturer's specifications.

Range equipment includes but is not limited to – personal kit, team kit, personal protective equipment, fall arrest systems, access systems, rescue kit.

1.2 Confirm industrial rope access systems meet safety requirements of workplace in accordance with the Best Practice Guidelines.

Range requirements include but are not limited to – anchors, back-up anchors, rope, attachment, personal rope access equipment.

1.3 Tie appropriate knots.

Outcome 2

Construct and operate advanced industrial rope access systems.

Performance criteria

2.1 Use equipment in accordance with manufacturers' limitations and specifications.

2.2 Construct and operate advanced industrial rope access systems.

Range techniques include but are not limited to – belaying using auto locking devices, lead climbing, aid climbing, hauling up to 250kg, cableway systems, securing of tools, plant and equipment over 8 kg.

Outcome 3

Construct and operate improvised anchors.

Performance criteria

3.1 Identify safe improvised anchor points.

Range includes but not limited to – counterweight needles, tripods, building structure, knowledge of angles, shared anchor concepts, loading requirements.

3.2 Calculate weights required for a counter-weight needle for rope access.

Range includes but is not limited to – based on the inboard, outboard and desired anchor rating.

3.3 Construct and operate mid rope anchors.

3.4 Construct and operate intermediate anchor points.

Range includes but is not limited to – beam clamps, aiding device, slings, wire ropes.

Outcome 4

Secure gear and site.

Performance criteria

4.1 Secure equipment, tools, and plant.

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| Planned review date | 31 December 2024 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|------------------|--------------------------|
| Registration | 1 | 28 November 2002 | 31 December 2016 |
| Review | 2 | 23 March 2006 | 31 December 2016 |
| Review | 3 | 16 July 2015 | 31 December 2021 |
| Review | 4 | 22 August 2019 | N/A |

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| 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>.

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.