

<b>Title</b>	<b>Demonstrate knowledge of climbing equipment, climb a tree and undertake one-person aerial rescue</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of climbing equipment; prepare to use knots for aerial arboriculture work; inspect tree and site for hazards and take appropriate action; identify and check equipment required before ascending, and select an appropriate tree climbing method; climb up and descend tree using climbing ropes and harness undertake a one-person aerial rescue in an arboriculture situation; and, describe the use of, and use, a ladder.
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<b>Classification</b>	Horticulture > Arboriculture
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<b>Available grade</b>	Achieved
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## Guidance Information

- 1 Legislation, standards and references relevant to this unit standard include but are not limited to:
  - Health and Safety at Work Act 2015;
  - BS 3998:2010, *Tree work. Recommendations*, available from [www.britishstandard.org.uk](http://www.britishstandard.org.uk);
  - WorkSafe New Zealand, *Approved Code of Practice Safety and Health in Arboriculture* (2012), available from [www.worksafe.govt.nz/worksafe](http://www.worksafe.govt.nz/worksafe);
  - WorkSafe New Zealand, *Approved Code of Practice for Safety and Health in Tree Work Part 2: Maintenance of trees around power lines* (1996), available from [www.worksafe.govt.nz/worksafe](http://www.worksafe.govt.nz/worksafe);
  - New Zealand Arboricultural Association Inc. (NZ Arb), *Best Practice Guide (BPG) for Safety Requirements in New Zealand Arboricultural Operations* (2017), available from [www.nzarb.org.nz](http://www.nzarb.org.nz); and any subsequent amendments.
- 2 Definitions
 

*Aerial rescue* – procedures for rescuing an injured climber from aloft.

*Workplace procedures* – the policies and procedures on safety and operation set down by the employer or organisation. Procedures should reflect industry best practice, the BPG, equipment manufacturers' requirements and current legislation.
- 3 Candidates must hold a current first aid certificate before undertaking aerial rescue.

- 4 It is recommended that Unit 31187, *Prune young amenity trees and shrubs from the ground and above ground in arboriculture situations*, be assessed concurrently with this unit standard.
- 5 For the purposes of assessment:
- evidence must be presented in accordance with workplace procedures.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of climbing equipment.

Range may include but is not limited to – personal protective equipment for accessing and positioning in the tree; safety harness, ascending and descending equipment, climbing rope, carabiners, spikes/gaffs; evidence of at least ten is required.

### Performance criteria

- 1.1 Describe climbing equipment qualities and features in terms of their uses.
- 1.2 Demonstrate climbing equipment routine care and maintenance, and check for faults or defects.

### Outcome 2

Prepare to use knots for aerial arboriculture work.

### Performance criteria

- 2.1 Tie knots and explain their uses for aerial arboriculture work.
- Range evidence of at least seven knots is required.

### Outcome 3

Inspect the tree and site for hazards and take appropriate action.

### Performance criteria

- 3.1 Assess tree and site for any potential hazards.
- Range evidence of at least three potential hazards is required.
- 3.2 Take appropriate action in response to identified hazards.

### Outcome 4

Identify and check equipment required before ascending, and select an appropriate tree climbing method.

**Performance criteria**

- 4.1 Identify equipment needed for climbing.
- 4.2 Check all equipment is in safe working order.
- 4.3 Select appropriate tree climbing method.

**Outcome 5**

Climb up and descend tree using climbing ropes and harness.

Range ascent must be to at least 12 metres high.

**Performance criteria**

- 5.1 Fix climbing rope into tree and use harness.
- 5.2 Tie and use industry recognised knots.  
Range evidence is required for at least two knots.
- 5.3 Climb up a tree and descend to ground level using climbing ropes and harness.

**Outcome 6**

Undertake a one-person aerial rescue in an arboriculture situation.

Range rescue from above 10 metres;  
rescue may be simulated.

**Performance criteria**

- 6.1 Prepare for an aerial rescue emergency situation and identify the requirements for the particular climbing system in use.
- 6.2 Conduct rescue of injured climber from the tree canopy using available climbing equipment with the rescue starting and finishing on the ground.
- 6.3 Identify medical emergencies a tree climber could encounter while working in a tree canopy and describe the first aid response.  
Range evidence of at least three medical emergencies is required.

**Outcome 7**

Describe the use of, and use, a ladder.

Range ladder may include – extension, forestry, tripod, insulated, standard;  
evidence of at least one is required.

**Performance criteria**

- 7.1 Describe the situations where ladders are commonly used.
- 7.2 Describe the suitability of the ladder for the situation.
- 7.3 Set up the ladder safely.
- 7.4 Ascend and descend ladder.

<b>Replacement information</b>	This unit standard replaced unit standard 2767 and unit standard 17256.
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<b>Planned review date</b>	31 December 2025
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	26 April 2018	31 December 2023
Review	2	25 March 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0032
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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 Primary ITO [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.