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| Title | Undertake sectional felling in arboriculture tree work | | |
| Level | 4 | Credits | 10 |

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| Purpose | People credited with this unit standard are able to: select equipment and techniques for sectional felling and identify hazards; use climbing equipment to ascend and descend trees with a clear trunk or stem of at least 10 meters; use sectional felling techniques that do not require the use of rigging equipment; use sectional felling techniques that require the use of basic rigging equipment; leave the site clean and tidy; and describe and carry out a pole rescue above 10 metres in an arboriculture situation. |
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| Classification | Horticulture > Arboriculture |
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| Available grade | 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;
- Resource Management Act 1991;
- BS 3998:2010, *Tree work. Recommendations*, available from www.britishstandard.org.uk;
- ANSI A300, *Standards for Tree Care Operations* (Parts 1 – 7) and their subsequent amendments, available from www.isa-arbor.com;
- WorkSafe New Zealand, *Approved Code of Practice Safety and Health in Arboriculture* (2012), available from 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;
- WorkSafe New Zealand, *Approved Code of Practice for Mobile Elevated Work Platforms* (2014), available from www.worksafe.govt.nz/worksafe;
- WorkSafe New Zealand, *A guide to safety with chainsaws* (2011), available from 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; and any subsequent amendments.

2 Definitions

Pole rescue – a specific aerial rescue carried out by an arborist, on a tree that has had its limbs removed.

Workplace procedures – the policies and procedures on safety and operation set down by the employer or organisation. Procedures should reflect industry best practice, the GPG, equipment manufacturers' requirements, and current legislation.

- 3 Candidates must hold a current first aid certificate before undertaking sectional tree felling.
- 4 It is recommended that this unit standard is completed prior to assessment – Unit 2775, *Prune semi mature and mature amenity trees in arboriculture situations*; or demonstrate equivalent knowledge and skills.
- 5 For the purposes of assessment:
 - evidence must be presented in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Select equipment and techniques for sectional felling and identify hazards.

Performance criteria

- 1.1 Identify and select suitable equipment and techniques required to complete sectional felling work.

Range may include but is not limited to – lowering lines, frictional devices, false crotches, whoopie slings, rigging blocks; evidence of at least three is required.
- 1.2 Identify and manage hazards involved in the work and the site.

Outcome 2

Use climbing equipment to ascend and descend trees with a clear trunk or stem of at least 10 meters.

Range climbing equipment must include but is not limited to – climbing spikes and lanyard, harness, climbing line.

Performance criteria

- 2.1 Assess tree to determine suitability for climbing with spikes and identify possible hazards.
- 2.2 Select, maintain and use climbing equipment.
- 2.3 Use climbing equipment to ascend and descend trees.

Outcome 3

Use sectional felling techniques that do not require the use of rigging equipment.

Performance criteria

- 3.1 Select strategies and procedures for the work in accordance with the contract, and site requirements.
- Range may include but is not limited to – holding cuts, side scarfing, felling cuts, felling adjacent limbs, felling sections of limb climber is on; evidence of at least five is required.
- 3.2 Safely remove sections of the tree using felling cuts.
- Range may include but is not limited to – holding cuts, blocking (or chogging) side scarfing, felling cuts, felling adjacent limbs, felling sections of limb climber is on; evidence of at least five is required.

Outcome 4

Use sectional felling techniques that require the use of basic rigging equipment.

Performance criteria

- 4.1 Select strategies and procedures for the work in accordance with the contract requirements.
- Range evidence of at least seven is required.
- 4.2 Safely remove sections of the tree using basic rigging equipment and rope tying techniques.
- Range evidence of at least five is required.

Outcome 5

Leave site clean and tidy.

Performance criteria

- 5.1 Remove and dispose of felled material from the site.
- 5.2 Select and use methods to remedy damage to ground surfaces during felling.

Outcome 6

Describe and carry out a pole rescue above 10 metres in an arboriculture situation.

Range pole rescue may be simulated.

Performance criteria

- 6.1 Describe strategies and procedures for carrying out a pole rescue.
- Range may include but is not limited to – victim is concussed, unconscious, bleeding, has a suspected back injury; evidence of at least three is required.
- 6.2 Carry out a pole rescue using the victim's climbing equipment, and additional climbing equipment, if required.

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| Replacement information | This unit standard replaced unit standard 2822. |
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| Planned review date | 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 | 11 December 2009 | 31 December 2019 |
| Review | 2 | 26 April 2018 | 31 December 2024 |
| Review | 3 | 25 March 2021 | N/A |
| Revision | 4 | 27 January 2022 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 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 Muka Tangata - People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.