

<b>Title</b>	<b>Demonstrate knowledge of pruning trees and shrubs in arboriculture situations</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of the principles and importance of pruning and training, and how pruning enhances tree form.
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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;
- Resource Management Act 1991.
- BS 3998:2010, *Tree work. Recommendations*, available from [britishstandard.org.uk](http://britishstandard.org.uk);
- AS4373:2007, *Pruning of amenity trees*, available from <https://www.standards.org.au/>;
- ANSI A300, *Standards for Tree Care Operations* (Parts 1 – 7) and their subsequent amendments, available from [www.isa-arbor.com](http://www.isa-arbor.com);
- 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);
- WorkSafe New Zealand, *Approved Code of Manual Elevating Work Platforms* (2014), 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

*Compartmentalisation of Decay in Trees* (CODIT) – a model that describes the processes that occur when a tree is wounded, by mechanical injury or by pruning. CODIT is the natural process that isolates damaged or diseased areas from health tissue surrounding the wound. The purpose of CODIT is to resist or prevent the spread of pathogens into the wood exposed by the injury. It also functions to separate a branch that has died from the living portion it is attached to and resists the entry of decay-causing pathogens into the exposed wood.

*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 manufacturer's requirements, and current legislation.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the principles and importance of pruning and training.

#### Performance criteria

- 1.1 Describe reasons for tree training and tree responses to training in terms of final tree shape.
- Range includes but is not limited to – multistem, single leader, espalier, hedging, pollarding.
- 1.2 Describe reasons for pruning and tree responses to pruning in terms of final tree shape.
- Range includes but is not limited to – air circulation, health, light filtration, safety, statutory clearances, view.
- 1.3 Describe pruning in terms of the principles of maintaining a natural balance.
- 1.4 Describe natural target pruning in terms of cut positions that promote desired plant responses.
- 1.5 Describe the process through which trees limit decay and the CODIT model response.
- 1.6 Identify and distinguish floral, vegetative and mixed buds in terms of their features.

### Outcome 2

Demonstrate knowledge of how pruning enhances tree form.

#### Performance criteria

- 2.1 Describe pruning techniques.
- Range may include but is not limited to – formative pruning, thinning, dead wooding, crown lifting, reduction, crown restoration; evidence of at least five is required.
- 2.2 Identify tree forms produced through pruning.
- Range may include but is not limited to – columnar, conical, decurrent, diffuse, excurrent, fastigate, horizontal, irregular, weeping; evidence of at least five is required.

<b>Replacement information</b>	This unit standard and unit standard 31187 replaced unit standard 2766 and unit standard 2768.
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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.