

Title	Describe the requirements and process of transplanting large trees using specialist equipment, and post planting care		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to describe: the procedures required to manage transplanting; the process of tree transplanting using specialist equipment; and post-transplant care.
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Classification	Horticulture > Arboriculture
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Available grade	Achieved
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Guidance Information

- Legislation and standards relevant to this unit standard include but are not limited to:
 - Health and Safety at Work Act 2015;
 - Health and Safety in Employment Regulations 1995;
 - Land Transport Act 1998;
 - The *Codes of Practice* are: *Approved Code of Practice for Safety and Health in Tree Work – Part 1 – Arboriculture* (1994);
 - *Approved Code of Practice for Safety and Health in Tree Work – Part 2 – Maintenance of Trees Around Power Lines* (1996);
 - *Guide for Safety with Underground Services* (2002); and their subsequent amendments, they are available from regional offices of the Department of Labour, Occupational Safety and Health Service, or the website www.worksafe.govt.nz;
 - The *Standards* are: BS 3998:1989 *Recommendations for tree work*; available from <http://www.standardsuk.com>;
 - ANSI Z133.1-2006 *Safety Requirements*;
 - ANSI A300 *Standards for Tree Care Operations* (Parts 1 – 7) and their subsequent amendments, available from the website: <http://www.isa-arbor.com>;
 - *Approved Code of Practice for Cranes*, Published by the Department of Labour Wellington New Zealand www.worksafe.govt.nz; 3rd edition revised November 2009 ISBN 978-0-487-33384-8; and any subsequent amendments.
- Definitions

Specialist equipment – for example: lifting frames, cranes, tree spades; high speed tools - air spades, compressors.

Workplace procedures – oral or written instructions to staff on procedures for the worksite and equipment. Workplace procedures may also include the written Health and Safety plans of contractors providing the specialist equipment.

- 3 For the purposes of assessment evidence must be presented in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Describe the procedures required to manage transplanting.

Performance criteria

- 1.1 Describe tree transplanting in terms of permits and resource consents for the legal requirements to transport trees.
- 1.2 Describe tree transplanting in terms of access and preparation requirements for the existing and new site area before transportation begins.
- 1.3 Describe tree transplanting in terms of arrangements for obstacle clearance and transport for a specified route prior to start of transportation to ensure that delays are minimised.
- Range services, vegetation, structures, traffic, transport equipment, escort services.
- 1.4 Describe tree transplanting in terms of weight estimation.
- Range evidence of soil volume and tree weight is required.
- 1.5 Describe tree transplanting in terms of labour and equipment schedules that would allow work to be completed within the time prescribed for the contract.

Outcome 2

Describe the process of tree transplanting using specialist equipment.

Performance criteria

- 2.1 Describe new site preparation in terms of meeting tree planting requirements.
- Range includes but is not limited to – excavation, drainage, aeration, provision of anchor and guying facilities, provision of irrigation.
- 2.2 Describe tree preparation for safe and damage free lifting.
- Range includes but is not limited to – lifting points established, root ball excavated and undercut, root ball protection applied, temporary stabilisation, pruning, moisture loss reduction techniques from leaves.
- 2.3 Describe methods used to lift and secure trees on the transporter in accordance with Codes of Practice and legislative requirements.

- 2.4 Identify and describe transport permit and regulation requirements for tree transportation.
- 2.5 Describe tree lifting and placement in new location in accordance with Codes of Practice.

Range includes but is not limited to – orientation, planting media, drainage, root ball preparation, plant depth, stabilisation, backfilling, canopy checked for damage.

Outcome 3

Describe post-transplant care.

Performance criteria

- 3.1 Describe soil environment enhancements in accordance with tree and client requirements.

Range includes but is not limited to – nutrients, irrigation, air filtration, mulch.

- 3.2 Describe transplanted tree's responses to formative and remedial pruning in terms of tree requirements.

Planned review date	31 December 2026
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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 2023
Review	2	24 June 2021	N/A

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 the Primary ITO standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.