

<b>Title</b>	<b>Demonstrate knowledge of releasing plantation trees and the use of agrichemicals</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is intended for people employed in an establishment role in a forestry operation.</p> <p>People credited with this unit standard are able to: explain factors which impact on the choice of method for releasing plantation trees; demonstrate knowledge of legislation and sources of information relating to the handling and use of agrichemicals; demonstrate knowledge of agrichemical toxicity; and demonstrate knowledge of weather tolerances in agrichemical use.</p>
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<b>Classification</b>	Forestry > Forest Establishment
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation and regulations relevant to this unit standard include the Health and Safety at Work Act 2015, the Resource Management Act 1991, and the Health and Safety at Work (Hazardous Substances) Regulations 2017, NZS 8409:2004 *Management of agrichemicals* and any subsequent amendments.
- 2 References  
*Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations*, December 2012, available from <https://worksafe.govt.nz/>.  
 New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <https://www.nzfoa.org.nz>.
- 3 Definitions  
*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.  
*Job prescription* refers to any written instructions for the operation and may include maps, harvest plans or cutting plans.  
*PPE* refers to personal protective equipment as required for the task in accordance with accepted industry practice and worksite procedures. This may include but is not limited to high-visibility clothing, protective clothing, gloves, face and eye protection, safety helmet, approved footwear, chaps, hearing protection, and safety devices.

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## Outcomes and performance criteria

### Outcome 1

Explain factors which impact on the choice of method for releasing plantation trees.

#### Performance criteria

- 1.1 The effects of competing weed growth on young trees are explained.
- 1.2 Factors that impact on the choice between agrichemical and hand-tool releasing are explained.
- Range age of target vegetation, type of vegetation, size of area.
- 1.3 Situations where agrichemical releasing is not suitable are identified and explained.
- Range situations include but are not limited to – environmentally sensitive areas;  
evidence of two situations is required.
- 1.4 The timing of releasing for most effective control is explained.
- 1.5 Common weed species in forests are identified and control for each is described.
- Range evidence of four species is required.
- 1.6 Risks associated with the use of hand tools for releasing are explained in accordance with accepted industry practice.

### Outcome 2

Demonstrate knowledge of legislation and sources of information relating to the handling and use of agrichemicals.

#### Performance criteria

- 2.1 Sources of information are stated and the purpose of each are explained.
- Range three sources.
- 2.2 NZS 8409 requirements are explained.
- Range management, transport, storage, mixing, application, disposal, training, PPE.
- 2.3 The purpose of the Health and Safety at Work (Hazardous Substances) Regulations 2017 and their relevance to commercial forestry operations are explained.

- 2.4 Health and safety requirements in terms of handling and storing chemicals, and the role of the handler, are explained in accordance with accepted industry practice.

### Outcome 3

Demonstrate knowledge of agrichemical toxicity.

#### Performance criteria

- 3.1 Degrees of toxicity are identified from container labels and symbols.
- Range at least two of – Glyphosate, Round Up, Valzine, Gardoprim, Release KT, Escort.
- 3.2 Symptoms and effects of agrichemical poisoning are described in accordance with NZS 8409.
- 3.3 Action to take in the event of suspected agrichemical poisoning or contamination is described in accordance with NZS 8409.

### Outcome 4

Demonstrate knowledge of weather tolerances in agrichemical use.

#### Performance criteria

- 4.1 Weather tolerances of agrichemicals required in a particular operation are identified in accordance with the job prescription.
- Range wind, rain, high temperatures, low temperatures, drought, humidity.
- 4.2 Consequences of applying the agrichemicals outside the defined weather tolerances are explained.
- 4.3 Techniques for applying the agrichemicals to mitigate the effect of wind are explained.

<b>Planned review date</b>	31 December 2028
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	28 January 1995	31 December 2024
Review	2	8 November 1996	31 December 2024
Revision	3	19 June 1998	31 December 2024
Review	4	5 December 2000	31 December 2024
Review	5	22 May 2008	31 December 2024
Review	6	10 December 2015	N/A
Review	7	23 April 2020	N/A
Rollover	8	26 April 2024	N/A

**Consent and Moderation Requirements (CMR) reference**

0173

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](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.