

<b>Title</b>	<b>Release plantation trees using agrichemicals</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is intended for people employed in an establishment role in a commercial forestry operation.</p> <p>People credited with this unit standard are able to: prepare to apply agrichemicals; release trees from competing plant growth using an agrichemical applicator; calibrate a hand-operated applicator; and describe the response to an on-site agrichemical spill.</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, 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.  
*PPE* – 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.  
*Worksite procedures* refer to documented procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site safety procedures, equipment operating procedures, quality assurance procedures, housekeeping standards, procedures to comply with legislative and local body requirements.

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## Outcomes and performance criteria

### Outcome 1

Prepare to apply agrichemicals.

#### Performance criteria

- 1.1 PPE is maintained and worn in accordance with accepted industry practice.
- 1.2 Equipment is maintained in accordance with accepted industry practice and manufacturer's requirements.
- Range calibrated, clean, nozzle function, parts free of damage.
- 1.3 Potential physical harm to users of the agrichemicals in use is explained in accordance with the manufacturer's product label and the material safety data sheet (MSDS).
- 1.4 The consequences of applying agrichemicals in the wrong concentration are explained in accordance with the job prescription and accepted industry practice.
- Range includes but is not limited to consequences for – the environment, the crop, the target weed species.
- 1.5 On-site health and safety requirements are described in accordance with the job prescription and worksite procedures.
- Range includes but is not limited to – handwashing before handling food.

### Outcome 2

Release trees from competing plant growth using an agrichemical applicator.

Range spray or solid applicator.

#### Performance criteria

- 2.1 The agrichemical to be used for releasing is described in terms of selection criteria and application.
- 2.2 The risks specific to the application of agrichemicals are assessed and controlled in accordance with accepted industry practice.
- 2.3 Operational requirements for the agrichemicals in use are obtained from the manufacturer's product label and the MSDS.
- Range may include but is not limited to – temperature range, water quality, use of PPE, use of additives, storage, disposal.

- 2.4 Quality and specific job requirements are established in accordance with the job prescription.
- 2.5 Work method and pattern are executed in a way that meets the job prescription.  
 Range safe and correct techniques, equipment, use of terrain, contour, chemical dumps, environmental requirements, area covered, tree crop damage, application, spray drift, wastage, swathe size.
- 2.6 Other crew members are communicated with in accordance with worksite procedures to ensure production outcomes are met.
- 2.7 Residual agrichemical is disposed of daily in accordance with the manufacturer’s product label and the MSDS.
- 2.8 Clean-up of equipment is carried out in accordance with the manufacturer’s product label and the MSDS.
- 2.9 Clean-up of self is carried out in accordance with the manufacturer’s product label and the MSDS.

**Outcome 3**

Calibrate a hand-operated applicator.

**Performance criteria**

- 3.1 Reasons for calibration are explained.
- 3.2 Calibration check is demonstrated by measuring units delivered and comparing with prescribed application rates.
- 3.3 Calibration is adjusted and rechecked to meet job prescription requirements.

**Outcome 4**

Describe the response to an on-site agrichemical spill.

**Performance criteria**

- 4.1 The response to an on-site agrichemical spill is described in accordance with accepted industry practice and worksite procedures.  
 Range containment, clean up, disposal, notification.

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<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 2017
Review	2	8 November 1996	31 December 2017
Revision	3	19 June 1998	31 December 2017
Review	4	5 December 2000	31 December 2017
Review	5	22 May 2008	31 December 2017
Revision	6	16 July 2010	31 December 2017
Review	7	10 December 2015	N/A
Review	8	23 April 2020	N/A
Rollover	9	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.