

<b>Title</b>	<b>Cultivate with a combination of tractor-drawn implements</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is for people working in the primary industry.</p> <p>People credited with this unit standard are able to: carry out a pre-use maintenance check of cultivation implements; attach and detach a combination of cultivation implements; prepare a cultivation work pattern in accordance with workplace procedures; and carry out cultivation using a combination of tractor-drawn implements in accordance with workplace procedures.</p>
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<b>Classification</b>	Agriculture > Agricultural Vehicles and Machinery
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Unit 19044, <i>Demonstrate knowledge of the legal requirements and hazards associated with tractor use</i> , or demonstrate equivalent knowledge and skills.
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### Guidance Information

- 1 All evidence presented in this unit standard must be in accordance with:
  - Workplace procedures.
- 2 Legislation relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015.
- 3 Definition
 

*Workplace procedures* refer to verbal and written instructions to staff on procedures for farm machinery use, maintenance, and safety.
- 4 Assessment
 

Evidence is required for at least two combinations of implements which may include but are not limited to – plough and press, power harrow and drill, drill and roller. However, assessment cannot be carried out using a harrow and roller.
- 5 It is recommended that candidates have achieved Unit 31913, *Operate a basic tractor on flat terrain under close supervision*, and Unit 31914, *Attach and detach a power take off driven 3 point linkage mounted implement to a basic tractor under close supervision* prior to assessment against this unit standard.

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## Outcomes and performance criteria

### Outcome 1

Carry out a pre-use maintenance check of cultivation implements.

#### Performance criteria

1.1 Identify, report and repair damage, wear, fault, and unsoundness so that the implements are in functional condition.

Range may include but is not limited to – ploughshares, nuts and bolts, bearings, transmission systems, covers, load bearing surfaces, alignments, couplings.

1.2 Lubricate moving parts in accordance with manufacturer's specifications.

1.3 Perform maintenance using tools and materials appropriate to the task.

### Outcome 2

Attach and detach a combination of cultivation implements.

#### Performance criteria

2.1 Adjust implements to enable full, correct, and secure functioning in accordance with manufacturer's specifications.

2.2 Complete coupling and adjustments using safe practices and specified tools in accordance with manufacturer's specifications.

2.3 Detach and store implements safely.

### Outcome 3

Prepare a cultivation work pattern.

#### Performance criteria

3.1 Plan a work pattern in accordance with the cultivation method and implement types.

3.2 Carry out work pattern minimising empty running and the number of strike-outs.

3.3 Incorporate alternating angles of operations in the work pattern so that ridging is eliminated.

3.4 Place accurately guide markers and alignments if appropriate as the soil type and terrain allow so that successful cultivation is achieved.

3.5 Check, note or remove hazards from the area.

**Outcome 4**

Carry out cultivation using a combination of tractor-drawn implements.

**Performance criteria**

- 4.1 Use combined cultivation implements according to manufacturer's specifications.
- 4.2 Follow work plan so that entire area is cultivated with minimal time travelling with the implements not in use.
- 4.3 Complete task according to prepared plan, tilth is uniform, and overlap is minimised, with no uncultivated areas.
- 4.4 Anticipate cultivation hazards and take relevant avoidance action.
- 4.5 Report inconsistencies from desired results during cultivation.

<b>Planned review date</b>	31 December 2024
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	25 June 2002	31 December 2013
Review	2	20 May 2008	31 December 2013
Review	3	21 June 2012	31 December 2021
Review	4	24 October 2019	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0052
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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 Industry Training Organisation [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.