

Title	Cultivate with individual tractor-drawn implements		
Level	3	Credits	4

Purpose	<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 cultivation implements; prepare a cultivation work pattern in accordance with workplace procedures; and carry out cultivation using individual tractor-drawn implements.</p>
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Classification	Agriculture > Agricultural Vehicles and Machinery
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Available grade	Achieved
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Prerequisites	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 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 PTO driven 3 point linkage to a basic wheel tractor under close supervision* prior to assessment against this unit standard.
- 4 **Definition**
Workplace procedures refer to verbal and written instructions to staff on procedures for farm machinery use, maintenance, and safety.
- 5 **Assessment**
 Evidence is required for three different cultivation implements, used individually, which are either 3 point linkage mounted or trailed.

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 a 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 to maintain functionality.

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

Outcome 2

Attach and detach cultivation implements.

Performance criteria

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

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

2.3 Detach and store implement safely.

Outcome 3

Prepare a cultivation work pattern.

Performance criteria

3.1 Plan a work pattern that is suited to cultivation method and implement type.

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

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

3.4 Accurately place guide markers and alignments as 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 individual tractor-drawn implements.

Performance criteria

- 4.1 Use cultivation implements according to manufacturer's specifications.
- 4.2 Follow cultivation work pattern so that the target area is cultivated with minimal time travelling with implement not in use.
- 4.3 Complete cultivation according to the cultivation work pattern, ensuring the tilth is uniform, and overlap is minimised resulting in no overcultivated areas.
- 4.4 Anticipate cultivation hazards and take relevant avoidance action.
- 4.5 Report inconsistencies from the desired outcome and the result of cultivation.

Planned review date	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

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.