

<b>Title</b>	<b>Apply fertiliser using mounted or trailed equipment</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>6</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: check, maintain, attach, and detach an implement used to distribute fertiliser; plan a systematic work pattern; and carry out fertiliser application using a mounted implement or trailed equipment.</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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### 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;
  - Land Transport Act 1998;
  - Resource Management Act 1991.
- 3 Vehicles commonly used for the application of fertiliser using mounted or trailed equipment include quad bikes, light utility vehicles (LUVs) and tractors.
- 4 Definitions
 

*Good management practices* refer to the practices described in the *Code of Practice for Nutrient Management*, New Zealand Fertiliser Manufacturer's Research Association Incorporated (NZFMRA), 2013, available from [www.fertiliser.org.nz](http://www.fertiliser.org.nz).

A *light utility vehicle (LUV)* (previously known as an ATVU or SPV) is a lightweight vehicle (less than 1000kg), principally designed for off-road use, with a steering wheel and side-by-side seating for at least one passenger. A LUV has some or all of the following features – a carry tray, rollover protection bars, a minimum of four wheels, low pressure tyres, automatic transmission, differential.

A *quad bike* means a vehicle, typically used in a rural workplace for off-road use, that is fitted with handlebars and thumb operated throttle controls, and has the following features:

  - four wheels with low pressure tyres
  - engine capacity not less than 200cc
  - gross weight of less than 1000kg
  - fixed rear axle

A *quad bike* excludes racing quad bikes or quad bikes modified for other purposes.

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

5 Assessment cannot be carried out by applying animal health products such as calcined magnesite because these products do not require detailed calibration.

6 References

*The Spreadmark Code of Practice For the Placement of Fertiliser in New Zealand* (2019), available from [www.fertqual.co.nz](http://www.fertqual.co.nz).

*The Fertmark Code of Practice For the Sale of Fertiliser in New Zealand* (2019), available from [www.fertqual.co.nz](http://www.fertqual.co.nz).

## Outcomes and performance criteria

### Outcome 1

Check, maintain, attach, and detach an implement used to distribute fertiliser.

#### Performance criteria

1.1 Check implement for, and report damage, wear, or malfunctions.

1.2 Lubricate moving parts before and after use in accordance with manufacturer's specifications.

1.3 Attach and adjust implement as instructed by the candidate's supervisor.

Range application rate, height, blower and/or chain and/or spinner and/or oscillating spout speed.

1.4 Empty and clean implement after use to remove residues.

1.5 Detach and store implement in a safe place and condition.

### Outcome 2

Plan a systematic work pattern.

#### Performance criteria

2.1 Plan a systematic work pattern which considers the changes in stability caused by the diminishing weight of fertiliser in accordance with good management practices.

Range plan incorporates minimal unproductive effort, travel, number of turns, and waste minimisation.

2.2 Identify hazards in the area to be fertilised and plan an escape route.

### Outcome 3

Carry out fertiliser application using a mounted implement or trailed equipment.

## Performance criteria

- 3.1 Load and apply fertiliser safely in accordance with the Health and Safety at Work Act 2015.
- 3.2 Distribute fertiliser evenly at the rate specified by the plan, with no coverage gaps, in accordance with good management practices.
- Range evidence is required for at least two application rates.
- 3.3 Monitor performance and take action to resolve any operating malfunctions, in accordance with manufacturer's specifications.
- 3.4 Record fertiliser application details.

<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 2022
Review	2	20 May 2008	31 December 2022
Review	3	21 June 2012	31 December 2022
Review	4	28 November 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.