

Title	Apply nutrients using mounted or trailed equipment		
Level	3	Credits	6

Purpose	People credited with this unit standard are able to: check, maintain, attach, and detach an implement used to apply nutrients; plan a systematic work pattern; and carry out nutrient application using a mounted implement or trailed equipment.
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Classification	Agriculture > Agricultural Vehicles and Machinery
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Available grade	Achieved
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Guidance Information

1 Legislation and references

Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:

- Health and Safety at Work Act 2015;
- Land Transport Act 1998;
- Resource Management Act 1991;
- *The Code of Practice for Nutrient Management*, New Zealand Fertiliser Association (2023), available from www.fertiliser.org.nz.
- *The Fertmark Code of Practice For the Sale of Fertiliser in New Zealand*, available from [The Fertiliser Quality Council](http://TheFertiliserQualityCouncil).
- *The Spreadmark Code of Practice*, available from [Groundspread NZ](http://GroundspreadNZ).

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

Refer to the Codes of Practice listed above for acceptable use of industry specific terms, unless stated otherwise. For information on the use and content of these Codes of Practice, contact the authoring organisation.

2 Definitions

Good management practices refers to the practices described in the *Code of Practice for Nutrient Management*.

Industry requirements refers to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, procedural documents.

Light utility vehicle (LUV) (previously known as an ATVU or SPV) refers to 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, and differential locks.

Quad bike refers to 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

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.

3 Assessment information

Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.

Vehicles commonly used for the application of nutrients using mounted or trailed equipment include – quad bikes, light utility vehicles (LUVs) and tractors.

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

Outcomes and performance criteria

Outcome 1

Check, maintain, attach, and detach an implement used to apply nutrients.

Performance criteria

- 1.1 Check implement and report damage, wear, or malfunctions.
- 1.2 Lubricate moving parts before and after use in accordance with manufacturer's specifications.
- 1.3 Attach or adjust implement to meet job requirements.

Range includes but is not limited to – 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 nutrients, 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 have nutrients applied and plan an escape route.

Outcome 3

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

Performance criteria

- 3.1 Load and apply nutrients safely.

- 3.2 Apply nutrients 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 nutrient-application details on the proof of placement map.

Planned review date	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	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	31 December 2026
Review	5	28 September 2023	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 Muka Tangata - People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.