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| Title | Spread effluent on the land by tanker and/or muck spreader | | |
| Level | 3 | Credits | 5 |

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| Purpose | People credited with this unit standard are able to: select and prepare effluent spreading equipment and machinery; carry out field preparation; spread effluent on the land; and carry out post-operational procedures. |
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| Classification | Rural Contracting > Agricultural Contracting |
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| Available grade | Achieved |
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| Prerequisites | Driver licence and any driver licence endorsement appropriate to the machine or vehicle being used. |
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Guidance Information

- 1 The following legislation and requirements apply to this unit standard:
 Health and Safety in Employment Act 1992;
 Land Transport Rule – Heavy Vehicles 2004;
 Resource Management Act 1991;
 Territorial authority and/or regional council (TA/RC) requirements, including appropriate consents obtained prior to spreading;
Guidelines for the Provision of Safety, Health and Accommodation in Agriculture (Wellington: Department of Labour, 1996), available from <http://www.osh.govt.nz/order/catalogue>;
 Manufacturer’s instructions.

Other requirements applicable to this unit standard may include but are not limited to:
Guarding Farm Machinery – Tractor power take-offs and transmission machinery (Wellington: Department of Labour, 1984); and
Approved Code of Practice for Roll Over Protective Structures on Tractors in Agricultural Operations (Wellington: Department of Labour, 2001); and
Approved Code of Practice for the Management of Noise in the Workplace (Wellington: Department of Labour, 2002); all available from <http://www.osh.govt.nz/order/catalogue>;
Code of Practice for the Placement of Fertiliser in New Zealand (Ashburton: Fertiliser Quality Council, 2006), available from the Fertiliser Quality Council, telephone 0800 327 646 or email midcanterbury.ff@fedfarm.org.nz;
 Territorial authority discharge permit.

Any legislation or other requirement superseding any of the above will apply, pending review of this unit standard.

- 2 Assessment against this unit standard must be based on evidence from a workplace context.
- 3 **Range**
Effluent may include but is not limited to – human or animal waste, whey, liquified offal, industrial waste.
- 4 Personal protective equipment, appropriate to job requirements, is to be selected and used in accordance with company requirements and manufacturer’s instructions.
- 5 **Definitions**
Company requirements refer to all policies, procedures, and methodologies the candidate’s organisation has in place including but not limited to those relating to health, safety, environment, quality, and operations.
Manufacturer’s instructions may include specifications, installation, handling, use, and maintenance instructions and safety data sheets.

Outcomes and performance criteria

Outcome 1

Select and prepare effluent spreading equipment and machinery.

Performance criteria

- 1.1 Equipment and machinery chosen are appropriate for the work to be carried out.
- 1.2 Equipment and machinery are checked for condition, damage, wear, and faults; problems are identified; and corrective action is taken in accordance with manufacturer’s instructions and company requirements.

Range equipment and machinery may include but are not limited to – tank or bin, pump, hose lines, screens, filters, nozzles, seals, gauges, covers, nuts and bolts, shafts, transmission systems, couplings, alignments, chains, beaters, bearings.
- 1.3 Effluent application equipment is adjusted for use in accordance with manufacturer’s instructions.

Range output, travel speed, swath width.
- 1.4 Checks are made and any necessary actions are taken or adjustments made to ensure the mobile machinery complies with legal and company requirements for operator health and safety.

Range may include but is not limited to – fire extinguisher, first aid equipment, seat, safety belt, mirrors, controls, climate control, sound equipment, communications equipment.

Outcome 2

Carry out field preparation.

Performance criteria

- 2.1 Work pattern is determined to produce systematic and efficient fertiliser application over the entire target area.
- 2.2 Work pattern is determined to ensure that over and under-application is minimised and takes account of potential hazards.
- Range people, animals, non-target areas, ground conditions, weather conditions.
- 2.3 Logistical readiness is established in accordance with company requirements.
- Range may include but is not limited to – access, fuel and oil supplies and storage, communications.

Outcome 3

Spread effluent on the land.

Performance criteria

- 3.1 Effluent applications are timed in accordance with client requirements.
- 3.2 Planned work pattern is followed with adjustments made to suit changing conditions.
- Range weather, proximity to people, proximity to animals.
- 3.3 Targeting and coverage are in accordance with client and company requirements.
- 3.4 Effluent is applied with no damage to equipment, property structures, environment, or crops.
- 3.5 Effluent application details are recorded in accordance with company requirements and TA/RC requirements.

Outcome 4

Carry out post-operational procedures.

Performance criteria

- 4.1 Shut-down procedures are carried out in accordance with manufacturer's instructions.

- 4.2 Equipment is cleaned and, as required, treated in accordance with manufacturer's instructions and/or company requirements.
- 4.3 Lubrication is carried out in accordance with manufacturer's instructions.
- 4.4 Any damage or faults including any missing, bent, broken, or loose parts are identified and are repaired, replaced, or reported in accordance with manufacturer's instructions and/or company requirements.
- 4.5 Equipment and machinery are stored in accordance with company requirements.
- 4.6 Documentation for the operation is completed in accordance with company and client requirements, and is stored in accordance with company requirements.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-----------------|--------------------------|
| Registration | 1 | 23 July 1996 | 31 December 2021 |
| Revision | 2 | 5 January 1999 | 31 December 2021 |
| Revision | 3 | 18 January 2000 | 31 December 2021 |
| Review | 4 | 31 October 2002 | 31 December 2021 |
| Review | 5 | 25 June 2007 | 31 December 2021 |
| Review | 6 | 26 March 2020 | 31 December 2021 |

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| Consent and Moderation Requirements (CMR) reference | 0101 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.