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| Title | Demonstrate knowledge of the use of animal health products for agrichemical supply | | |
| Level | 3 | Credits | 6 |

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| Purpose | <p>This unit standard is for people involved with the handling, storage, supply, transfer, and/or manufacture of agrichemicals.</p> <p>People credited with this unit standard are able to describe: how management techniques and animal health products contribute to the health and productivity of livestock; the use of animal health products for livestock; internal and external parasites; and the use of vaccines and sera.</p> |
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| Classification | Agriculture > Agrichemical Supply |
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| Available grade | Achieved |
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Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
 - Agricultural Compounds and Veterinary Medicines Act 1997;
 - Animal Welfare Act 1999;
 - Biosecurity Act 1993;
 - Fisheries Act 1983;
 - Food Act 1981;
 - Hazardous Substances and New Organisms Act 1996;
 - Health Act 1956;
 - Health and Safety in Employment Act 1992;
 - Meat Act 1981;
 - Resource Management Act 1991;
 - Maritime Transport Act 1994;
 - Water Supplies Protection Regulations 1961;
 - Wildlife Regulations 1955.
- 2 The New Zealand Standard applicable to this unit standard is NZS 8409:2004 *The management of agrichemicals*, available from <http://www.standards.co.nz>.
- 3 Codes and related documentation applicable to this unit standard include but is not limited to:

Responsible Care Management System – Available from the New Zealand Chemical Industry Council (NZCIC, PO Box 5069, Wellington).

4 Definition

Agrichemical – any substance, whether inorganic or organic, man-made or naturally occurring, modified or in its original state, that is used in any agriculture, horticulture or related activity, to eradicate, modify or control flora and fauna. It includes agricultural compounds, and for the purposes of agrichemical supply, includes fertilisers, vertebrate pest control products, and oral nutrition products.

Outcomes and performance criteria

Outcome 1

Describe how management techniques and animal health products contribute to the health and productivity of livestock.

Performance criteria

1.1 Management techniques for the preservation of positive animal health and productivity, are described in accordance with NZS 8409:2004, legislation, and regulations.

Range evidence is required for at least five management techniques.

1.2 Methods of disease prevention are described in terms of NZS 8409:2004, legislation, and regulations.

Range includes but is not limited to – vaccination, parasite control, feeding.

Outcome 2

Describe the use of animal health products for livestock.

Performance criteria

2.1 Animal health products are described in terms of their uses, routes of administration, mode of action, limitations, withholding periods, residue levels, and major product groups.

Range anthelmintics, parasiticides.

2.2 Animal health products are described in terms of toxicities, adverse affects, action to take in an emergency, and reporting requirements.

Range anthelmintics, parasiticides, over the counter (OTC) products, trace elements.

2.3 Animal health products are described in terms of factors which can contribute to development of paraciticide resistance.

Range evidence is required for at least four factors.

Outcome 3

Demonstrate knowledge of internal and external parasites.

Performance criteria

3.1 Internal parasites are described in terms of their impact on the host, simple life cycles, causes, treatment, prevention, and control.

Range includes but is not limited to – nematodes, lungworm, tapeworm, liver fluke.

3.2 External parasites are described in terms of their impact on the host, simple life cycles, causes, treatment, prevention, and control.

Range includes but is not limited to – lice, ticks, keds, blowfly.

Outcome 4

Describe the use of vaccines and sera.

Performance criteria

4.1 Vaccines are described in terms of their contribution to animal health.

4.2 Active and passive immunity are differentiated, and the use of vaccines and sera are described in relation to disease, infection, natural immunity, acquired immunity, and artificial immunity,

4.3 Factors governing the choice of products are identified and described in accordance with legislative requirements.

Range treatment required, withholding time, injection sites.

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| Replacement information | This unit standard replaced unit standard 10893. |
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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 | 27 May 2005 | 31 December 2022 |
| Review | 2 | 29 July 2021 | 31 December 2022 |

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| 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>.