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**AGRICHEMICAL SUPPLY**  
**Demonstrate knowledge of integrated  
pest management (IPM) for agrichemical  
supply**

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<b>level:</b>	<b>3</b>
<b>credit:</b>	<b>3</b>
<b>planned review date:</b>	May 2009
<b>sub-field:</b>	Agriculture
<b>replacement information:</b>	This unit standard and unit standard 21552 replaced unit standard 10892.
<b>purpose:</b>	<p>This unit standard provides background theory 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: IPM for a given agricultural production system; non-agrchemical methods of pest control; and the relationship between the physical and chemical properties, and the environmental effect and fate, of plant protection products.</p>
<b>entry information:</b>	Open.
<b>accreditation option:</b>	Evaluation of documentation and visit by NZQA, industry and teaching professional in the same field from another provider.
<b>moderation option:</b>	A centrally established and directed moderation system has been set up by the Primary Industry Training Organisation.
<b>special notes:</b>	<p>1 Legislation and regulations relevant to this unit standard include but are not limited to – Agricultural Compounds and Veterinary Medicines (ACVM) Act 1997; Biosecurity Act 1993; Fisheries Act 1996;</p>

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Hazardous Substances and New Organisms Act 1996;  
Health Act 1956;  
Health and Safety in Employment Act 1992;  
Resource Management Act 1991;  
Wildlife Regulations 1955;  
New Zealand Labelling Guide for Toxic Substances  
2001, available from <http://www.moh.govt.nz>.

2 Definitions

*agrchemical* – 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;

*environmental fate* – a generic term describing the interaction of the product, or substance concerned, with the environment, including descriptions of:

- a the various pathways by which a substance may enter the environment;
- b the possible interactions with the environment;
- c the consequences of these interactions, especially where there is potential for adverse environmental effect.

## **Elements and Performance Criteria**

### **element 1**

Describe IPM for a given agricultural production system.

### **performance criteria**

- 1.1 IPM is described in relation to its application for a specified production system.

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- 1.2 IPM is described in terms of the process for implementation for the specified production system.
- Range: pest identification, management systems, management strategies, monitoring, economic thresholds.
- 1.3 IPM is described in terms of the benefits.
- Range: benefits to – the environment, the consumer, financial and physical sustainability.
- 1.4 IPM is described in relation to the use of resistance management strategies.

**element 2**

Describe non-agrichemical methods of pest control.

Range: evidence is required for at least four methods.

**performance criteria**

- 2.1 The description identifies the advantages and disadvantages of the selected methods.

**element 3**

Describe the relationship between the physical and chemical properties, and the environmental effect and fate, of plant protection products.

**performance criteria**

- 3.1 The relationship between physical and chemical properties, and the environmental effect and fate, of plant protection products is described.
- Range: adsorption, transfer, degradation, food chain accumulation, soil residues, crop residues.

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**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.

**Please Note**

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0052 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.