



Australian Government

AHCPCM513 Conduct environment and food safety risk assessment of plant nutrition and soil fertility programs

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to conduct an environment and food safety risk assessment of plant nutrition and soil fertility programs, including maintaining currency, evaluating risks, developing a plant nutrient and soil fertility program, and identifying and communicating best practice.

The unit applies to individuals who apply specialised skills and knowledge to diagnose plant health problems, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

All work is carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements, and sustainability and biosecurity practices.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Plant Culture and Management (PCM)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Maintain currency of	1.1 Research and document community, government and agricultural

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environment and food safety information relating to fertilisers and soil ameliorants	industry concerns and legislative requirements relevant to fertiliser and soil ameliorant environmental stewardship, and define initiatives to address them 1.2 Communicate with local organisations to identify and document local information relevant to nutrient management, particularly in a catchment or regional context 1.3 Research and document national and local information and standards relevant to food safety associated with fertiliser and soil ameliorant use 1.4 Research and document information and standards relevant to transporting, handling, storing and applying fertilisers and soil ameliorants
2. Evaluate environmental risks and develop a plant nutrition and soil fertility management program	2.1 Identify and document environmentally significant features of fertiliser, soil ameliorants, soil, landscape and climate that are likely to influence environmental risks associated with plant nutrition and soil fertility programs 2.2 Identify and document agronomic and operational activities associated with fertiliser and soil ameliorant programs and associated environmental risk categories 2.3 Evaluate and prioritise environmental risks and impacts associated with agronomic and operational activities 2.4 Identify and evaluate management options to address environmental risks 2.5 Develop and document a plant nutrition and soil fertility management program, and present to the land owner or manager 2.6 Advise client of management options to address environmental risks, and gain agreement 2.7 Use nutrient management tools in conjunction with land owner or manager to monitor effectiveness of management decisions over time 2.8 Identify opportunities to improve efficiency and effectiveness of plant nutrition and soil fertility program, including use of fertilisers and soil ameliorants, and modify operational and agronomic recommendations accordingly
3. Identify and communicate best practice in transport, handling and storage for	3.1 Identify key environmental product stewardship issues in transport, handling and storage of fertilisers and soil ameliorants relevant to the plant nutrition and soil fertility program, codes of practice and legislation

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
environmental stewardship to land owner or manager	3.2 Develop and document a key environmental stewardship issues report, and present to the land owner or manager

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Identify and interpret information regarding environment and food safety relating to fertilisers and soil ameliorants requirements, and developing a plant nutrition and soil fertility management program
Oral communication	Initiate discussions with local organisations, client, land owner or management using clear language to discuss information relating to nutrient management options to address environmental risks, gain agreement and present reports
Numeracy	- Access and analyse published data for input to plant nutrition and soil fertility management program, and key environmental stewardship issues report - Calculate areas, ratios, proportions and application rates - Estimate treatment and product quantities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHPCPM513 Conduct environment and food safety risk assessment of plant nutrition and soil fertility programs	AHPCPM505 Conduct environment and food safety risk assessment of plant nutrition and soil fertility programs	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>