Modification history

Release	Comments		
Release 2	This version released with AHC Agriculture, Horticulture, Conservation and		
	Land Management Training Package Version 5.0.		
Release 1	Initial release		
AHCPCM505	Conduct environment and food safety risk assessment of plant nutrition and soil fertility programs		
Application	This unit of competency describes the skills and knowledge required to conduct an environment and food safety risk assessment of plant nutrition		Deleted: n established or developing
	and soil fertility programs, including maintaining currency, evaluating risks,		Deleted. If established of developing
	developing a plant nutrient and soil fertility program, and identifying and	_	Deleted: management
	communicating best practice.		Deleted: plan
	The unit applies to individuals who apply specialised skills and knowledge		Deleted: I
	to diagnose plant health problems, and take personal responsibility and		
	exercise autonomy in undertaking complex work. They analyse and		Deleted: analyse information and exercise judgement
	synthesise information and analyse, design and communicate solutions to	\backslash	to complete a range of advanced skilled activities and
	sometimes complex problems,		demonstrate deep knowledge in a specific technical area. They have accountability for the
	All work is carried out to comply with workplace procedures, health and		Deleted: of others and
	safety in the workplace requirements, legislative and regulatory requirements, and sustainability and biosecurity practices.	$\langle \rangle$	Deleted: a range of
	requirements, and sustainability and biosecunty practices.	· · · ·	Deleted: .
	No licensing, legislative or certification requirements apply to this unit at the		Deleted: occupational
	time of publication.	/	· · · · · · · · · · · · · · · · · · ·
Prerequisite Unit	Nil		Deleted: are known to
Unit Sector	Plants culture and management (PCM)		
Elements	Performance Criteria		
Elements describe the	Performance criteria describe the performance needed to demonstrate		
essential outcomes.	achievement of the element.		
1. Maintain currency of	1.1 Research and document community, government and agricultural		Deleted: , identify
environment and food industry concerns and legislative requirements relevant to fertiliser and soil			Deleted: in relation
safety information relating	ameliorant environmental stewardship and define initiatives to address		
to fertilisers and soil	them		
ameliorants	1.2 Communicate with local organisations to identify and document local information relevant to nutrient management, particularly in a catchment or		Deleted: I
	regional context		Deleted: ating

1.3 Research and document national and local information and standards

transporting, handling, storing and applying fertilisers and soil ameliorants

relevant to food safety associated with fertiliser and soil ameliorant use 1.4 Research and document information and standards relevant to Deleted: I Deleted: ating Deleted: , by communicating with local organisations Deleted: , identify Deleted: relating to Deleted: , identify Deleted: relating

regional context

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Elements	Performance Criteria		
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.		
2. Evaluate environmental	2.1 Identify and document environmentally significant features of fertiliser,		
risks and develop a plant	soil ameliorants, soil, landscape and climate that are likely to influence		
nutrition and soil fertility	environmental risks associated with plant nutrition and soil fertility programs		Deleted: nutrient
management p <u>rogram</u> ,	2.2 Identify and document agronomic and operational activities associated		Deleted: lan
	with fertiliser and soil ameliorant programs and associated environmental		Deleted. Idii
	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		Deleted: appropriately
	risks		
	2.5 Develop a plant nutrition and soil fertility management program and		Deleted: plan
	present to the land owner or manager		
	2.6 Advise client of management options to address environmental risks		Deleted: Discuss
	and gain agreement 2.7 Use nutrient management tools in conjunction with land owner or	$\langle \rangle$	Deleted: appropriate
	manager to monitor effectiveness of management decisions over time	$\langle \rangle$	Deleted: any identified
	2.8 Identify opportunities to improve efficiency and effectiveness of plant		Deleted: with client
	nutrition and soil fertility program, including use of fertilisers and soil		
	ameliorants and modify operational and agronomic recommendations		
2 Identify and	accordingly		
3. Identify and	3.1 Identify key environmental product stewardship issues in transport,		
communicate best practice	handling and storage of fertilisers and soil ameliorants relevant to the plant		Deleted: relevant
in transport, handling and storage for environmental	nutrition and soil fertility program, codes of practice and legislation 3.2 Develop a key environmental stewardship issues report, and present to		Deleted: as contained in
stewardship to land owner	the land owner or manager		Deleted: on the identified
or manager			Deleted: key environmental stewardship issues

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 information relating to fertilisers and soil ameliorants requirements, and developing a plant nutrition and soil fertility management program, Deleted: [Skill] Deleted: [Skill]
Writing,	Develop a plant nutrition and soil fertility management program, and key environmental stewardship issues report.
Oral communication,	Initiate discussions with local organisations, using clear language to identify and discuss local information relating to nutrient management in which to list them and hints on writing descriptions
	Initiate discussions with land owner or management, using clear language to present plant nutrition and soil fertility management Deleted: [Skill]
	program, and key environmental stewardship issues report Use clear language with client to communicate management options to SI Bullet List 1
	address environmental risks and gain agreement, Deleted: [Style to be applied in left column is SI Text]
<u>Numeracy</u>	Access and analyse published data for input to plant nutrition and soil <u>fertility management program, and key environmental stewardship</u> issues report
	Calculated areas, ratios, proportions and application rates Estimated treatment and product requirements, material sizes and quantities
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Unit Mapping Information

VETNet:

9c62-4a5e-bf1a-524b2322cf72

Code and title current version	Code and title previous version	Comments	Equivalence status		
AHCPCM505 Conduct environment and food safety risk assessment of plant nutrition and soil fertility programs <u>Release 2</u>	AHCPCM505 Conduct environment and food safety risk assessment of plant nutrition and soil fertility programs <u>Release 1</u>	Performance criteria clarified Foundation skills added Assessment requirements updated,	Equivalent unit		Deleted: A Deleted: [SI Text]
Links	Companion Vo	olumes, including Implemen	tation Guides, are available at		

https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-

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TITLE Assessment requirements for AHCPCM505 Conduct environment and food safety risk assessment of plant nutrition and soil fertility programs					
Performance Evidence					
An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has conducted environment and food safety risk assessments of plant and nutrition and soil fertility programs on at least one occasion and has;					
	health and safety, and environmental and biosecurity legislation,				
regulations and workplace					
	document <mark>ed</mark> community, government and agricultural industry information, s in relation to fertiliser and soil ameliorant use and environmental				
	documented information and standards relating to transporting, handling,				
storing and applying fertilis		J/ //			
	obability and severity of identified environmental risks associated with plant	$\perp // /$			
 nutrition and soil fertility pro liaised with managers and 	•	$\langle \rangle \rangle$			
	landowners, local and national organisations and soil fertility management program, and key environmental stewardship	$+ \ \)$			
issues report	and somerting management program, and key environmental stewardship	$\setminus \setminus$			
 monitored effectiveness of 	plant nutrition and soil fertility management decisions over time	$\land \land$			
	mprove efficiency and effectiveness of plant nutrition and soil fertility	\top / ,			
program		1 / /			
Knowledge Evidence		אר ר			
Knowledge Evidence					
	emonstrate the knowledge required to perform the tasks outlined in the				
	eria of this unit. This includes knowledge of:				
	y, and environmental and biosecurity legislation, regulations and workplace ducting environment and food safety risk assessment of plant nutrition and				
soil fertility programs					
	food safety risk assessment, including:				
	ions of soil amendment and fertiliser use, that may include nutrient mining,				
	of soil and water, toxicity, noise and dust				
	ting to the use of fertilisers and soil ameliorants				
	d importance of nutrient interactions				
	s of nutrient uptake by plants and loss from soil				
including role of soil bid					
on individual plant spec					
 relationship between so micro elements, to plar 	oil characteristics and the availability of nutrients, including macro and nts				
 single nutrient and corr 	nplete fertiliser products encountered in local area, including physical				
	ysis, solubility, salt index, application rates and costs, and appropriate				
application techniques		1			
	nonly used to treat local soil problems g techniques to adapt activities and instructions to a range of environmental				
contexts	g techniques to adapt activities and instructions to a range of environmental				
 techniques for interpret recommendations 	ting laboratory results and making fertiliser and amendment				
 techniques to assess e water. 	ffects of fertiliser and amendment recommendations on soil, plants and				
Assessment Conditions		// ב			
		1 11 / /			

Assessment of skills must take place under the following conditions;

physical conditions;

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a workplace setting or an environment that accurately represents workplace conditions, resources, equipment and materials;

Skills Impact Unit of Competency

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¶ The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.¶ The candidate must provide evidence that they can Deleted: R Deleted: y Deleted: R Deleted: y Deleted: y Deleted: <#>calculate areas, ratios, proportions and application rates¶ Deleted: nutrient management plan Deleted: y Deleted: ¶ estimate treatment and product requirements, material sizes and quantities Deleted: <#>¶ <#>The candidate must demonstrate knowledge of:¶ Deleted: for environment

Deleted: enterprise

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Deleted: If any of the first level dot points do not apply to this unit, then please delete the point completely, e.g. if no interactions are needed with people at all, then you would delete the relationships point and second level points.¶

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Deleted: [e.g. skills must be demonstrated in [a commercial kitchen/a racing stable/veterinary practice/vineyard]...

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Deleted: [Deleted:]

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Assessment Conditions published local information relevant to nutrient management specifications; workplace health and safety, and environmental and biosecurity legislation, regulations and workplace procedures relevant to conducting environment and food safety risk assessment of plant nutrition and soil fertility programs legislation and standards relevant to fertiliser and soil ameliorant transportation, handling, storage, application and environmental stewardship national and local information and standards relevant to food safety associated with fertiliser and soil ameliorant • relationships; land owner or manager, client and local organisations, timeframes: according to job requirements. Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards,

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?g=c6399549-9c62-4a5e-
	bf1a-524b2322cf72

Deleted: [e.g. live horses]¶ [e.g. use of specific tools] [e.g. use of specific items of personal protective equipment]...¶ <#>¶ <#>[Deleted: <#>¶ <#>[Deleted: <#>] **Deleted:** [e.g. use of specific workplace documents such as policies, procedures, processes, forms]¶ [e.g. use of manufacturer's operating instructions for specific equipment, machinery, etc.]¶ [e.g. access to specific safety data sheets]¶ [e.g. use of workplace instructions/job specifications/client briefs]¶ [access to specific legislation/codes of practice] Deleted: [Deleted: (include only if the individual needs to interact with internal and/or external people during assessment of skills): Deleted: [e.g. client(s), customer(s)]¶ [e.g. team member(s), supervisor(s)] Deleted: [**Deleted:** (include only if time is an essential assessment condition)...[e.g. [e.g. Deleted: [e.g. Deleted: time specified in Deleted: sheet]¶ [e.g. within a specific time period] [final point only ends with a full stop Deleted:] Deleted: ¶ Delete the following if there are no additional assessor requirements.¶ [In addition, the following specific assessor requirements apply to this unit:¶ SI Bullet List 1¶ SI Bullet List 1:¶ SI Bullet List 2.]

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