



Australian Government

AHCSOL405 Provide information on fertilisers and soil ameliorants

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 gather and provide information on fertilisers and soil ameliorants.

The unit applies to individuals who apply specialist skills and knowledge to provide information on fertilisers, soil ameliorants and related environmental information. This includes applying and communicating non-routine technical solutions to predictable and unpredictable problems.

All work must be 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

Soils and Media (SOL)

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. Gather information on the requirements of the customer	1.1 Identify fertiliser or soil ameliorant requirements 1.2 Evaluate planned use of fertiliser or soil ameliorant according to legislative requirements, environmental guidelines and food safety

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	regulations
2. Research and provide information on nutrient management program	2.1 Provide information on soil, plant tissue and water sampling to the customer 2.2 Provide customer with relevant sampling kits and advice on sampling procedures 2.3 Provide information on fertiliser and soil ameliorant products, including workplace health and safety, biosecurity, food safety and environmental issues 2.4 Provide information on use of nutrient management tools 2.5 Provide information on application method or timing 2.6 Research and update knowledge and understanding of fertilisers, soil, ameliorants and related products from authoritative sources 2.7 Research local workplace and district requirements for fertilisers, soil, ameliorants and related products
3. Finalise customer advice	3.1 Provide customer with information regarding transporting, storing and handling fertiliser and soil ameliorants 3.2 Refer customer to a specialist adviser if required 3.3 Record details of information provided

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	- Interpret textual information from a range of sources to identify relevant and key information about fertilisers, soil ameliorants and related products, and legislative requirements - Interpret fertiliser and soil ameliorant product labels
Oral communication	Use clear language with customers to gather information and evaluate planned product use, and explain sampling procedures and product use, transportation, storage and handling

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCSOL405 Provide information on fertilisers and soil ameliorants	AHCMER406 Provide information on fertilisers and soil ameliorants	Unit code and sector changed 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>

Assessment Requirements for AHCSOL405 Provide information on fertilisers and soil ameliorants

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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 provided information on fertilisers and soil ameliorants on at least three occasions, and has:

- considered the following when providing information:
 - applicable workplace health and safety procedures
 - manufacturer requirements
 - chemical safety and food safety legislation and regulations
 - biosecurity and environmental guidelines for using
 - transportation, storage and handling of fertiliser and soil ameliorants
- explained the use of nutrient management tools
- recorded details of information provided to the customer.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- crop nutrient requirements, including both macro and micro nutrients
- effect of soil ameliorants in dispersion and adjustment for acidity or alkalinity (pH)
- workplace health and safety procedures, manufacturer requirements, chemical safety and food safety legislation and regulations, biosecurity and environmental guidelines for using, transportation, storage and handling of fertiliser and soil ameliorants
- packaging and dispatch procedures for samples
- physical, chemical and biological properties related to a healthy soil and environment
- sampling tools and methods, including:
 - soil, plant tissue and water tests
 - yield monitoring
 - electrical conductivity survey

- workplace health and safety and environmental procedures in operating sampling equipment
- impact of climate on soil productivity
- environmental impacts, including:
 - soil structural decline
 - fertility decline
 - acidification and salinity
 - erosion
 - loss of organic matter
 - water quality
 - fertiliser and soil ameliorant impurities
 - greenhouse gas emissions
- major nutrient management risks of leach, run-off, load, blow, and mine, and how these impact on the environment
- nutrient management advisory tools and processes used by advisers in making a crop nutrition recommendation
- fertiliser and soil ameliorant application methods, including timing and frequency of fertiliser and soil ameliorant application to minimise losses
- industry production regimes and fertiliser practices.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - fertilisers and soil ameliorants
 - soil, plant tissue and water sampling tools
 - nutrient management tools
- specifications:
 - workplace health and safety procedures, manufacturer requirements, chemical safety and food safety legislation and regulations, biosecurity and environmental guidelines applicable to fertiliser and soil ameliorant use, transportation, storage and handling
- relationships:
 - customers, specialist adviser.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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