



Australian Government

Assessment Requirements for 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.

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

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

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