



Australian Government

**Assessment Requirements for
AHCPCM505 Conduct environment and
food safety risk assessment of plant
nutrition and soil fertility programs**

Release: 1

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Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Performance Evidence

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:

- Research, identify and document community, government and agricultural industry information, concerns and requirements in relation to fertiliser and soil ameliorant use and environmental stewardship
- Research, identify and document information and standards relating to transporting, handling, storing and applying fertilisers and soil ameliorants
- identify and evaluate probability and severity of identified environmental risks associated with plant nutrition and soil fertility programs
- calculate areas, ratios, proportions and application rates
- liaise with managers and landowners, local and national organisations
- develop a nutrient management plan
- monitor effectiveness of plant nutrition and soil fertility management decisions over time
- identify opportunities to improve efficiency and effectiveness of plant nutrition and soil fertility program
- estimate treatment and product requirements, material sizes and quantities

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of food safety risk assessment
- environmental implications for environment of soil amendment and fertiliser use, that may include nutrient mining, run-off, nutrient loading of soil and water, toxicity, noise and dust
- food safety issues relating to the use of fertilisers and soil ameliorants
- law of the minimum and importance of nutrient interactions
- methods and pathways of nutrient uptake by plants and loss from soil

- nutrient cycling and its practical relevance to specific plants and soils encountered in local area, including role of soil biology
- nutrients required by plants grown within enterprise and effects of nutrient deficiency and toxicity on individual plant species and varieties
- relationship between soil characteristics and the availability of nutrients, including macro and micro elements, to plants
- single nutrient and complete fertiliser products encountered in local area, including physical attributes, nutrient analysis, solubility, salt index, application rates and costs, and appropriate application techniques and equipment
- soil amendments commonly used to treat local soil problems
- soil and water sampling techniques to adapt activities and instructions to a range of environmental contexts
- techniques for interpreting laboratory results and making fertiliser and amendment recommendations
- techniques to assess effects of fertiliser and amendment recommendations on soil, plants and water

Assessment Conditions

Assessors must satisfy current standards for RTOs.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>