



Australian Government

**Assessment Requirements for
AHCPCM402 Develop a soil health and
plant nutrition program**

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:

- access and analyse information on regional site factors
- assess the physical, chemical and biological characteristics of soils
- assess the physical, nutritional and health requirements of plants
- develop a soil, plant and water testing program
- develop a program to achieve appropriate soil conditions and nutrient availability for plant growth, incorporating a soil health and plant nutrition plan
- research and analyse findings on plant nutritional requirements, nutrients available from soils and other growth media, and environmental implications of program
- select suitable management practices, soil amendments, additives and fertilisers

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of soil health and plant nutrition
 - characteristics of soil and other growth media types, uses and additives to enhance available nutrition for specific plants
 - main simple and compound fertiliser products available to enterprise, including analysis, solubility, salt index, application rates and costs
 - methods of nutrient uptake by plants and favourable conditions for effective uptake to occur
 - nutrients and water required by plants grown within enterprise and effects of nutrient deficiency and toxicity on individual plant species and varieties
 - visual and other symptoms of nutrient deficiency and toxicity on individual plant species and varieties
 - organic matter, pest and disease, and nutrient interactions in soil and nutrient cycling

- environmental issues associated with selecting nutritional materials, implementing a plant nutrition program, legislation compliance requirements and ensuring minimal impact on environment
- the following types of relationships between soil and growth media characteristics and availability of nutrients to plants: macro and micro elements
- the following types of site evaluation techniques: methods of sampling and analysing soils and other growth media
- soil amendments commonly required to treat soil problems experienced by enterprise

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>