



Australian Government

AHCPCM402 Develop a soil health and plant nutrition program

Release: 1

AHCPCM402 Develop a soil health and plant nutrition program

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to develop a soil health and plant nutrition program.

It applies to individuals who analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems. All work is carried out to comply with workplace procedures.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Plant culture and management (PCM)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1.Determine relevant regional data and site characteristics	1.1 Define goals and target site for assessment and development of program 1.2 Access and review relevant climate data, environmental context information and site data 1.3 Determine appropriate soil, plant and water tests, taking into account plant species, climatic conditions and prevailing growth media

Element	Performance criteria
	1.4 Develop a soil, plant and water testing program that defines sampling, field testing, off-site analysis activities, task responsibilities, involvement of contractors, scheduling and desired information outcomes 1.5 Implement and monitor soil, plant and water testing tasks, supervise liaison procedures with outside testing agencies and take remedial action where necessary 1.6 Compile data and readings and present in a form that can be easily understood 1.7 Determine seasonal variations and requirements from published data on species, historical records and own experience 1.8 Determine characteristics, condition and nutritional status of soils and plant species by analysing collected data and comparing to accepted standards
2. Define the requirements for plant nutrition	2.1 Identify different nutritional requirements of the plant during the growing cycle and growing conditions, using published data on species, historical records and own experience 2.2 Develop program to achieve appropriate soil conditions and nutrient availability for plant growth 2.3 Determine soil amendments, management practices and fertiliser requirements 2.4 Identify and cost resources, tools, equipment and machinery required for program and confirm availability with suppliers, contractors and appropriate personnel 2.5 Determine cost-effective approach to soil management, soil amendment and provision of plant nutrients 2.6 Identify work health and safety hazards associated with program, assess risks and develop and document control measures 2.7 Identify and document environmental implications of program
3. Document the soil health and plant nutrition program and specifications	3.1 Establish a detailed soil health and plant nutrition plan, objectives, specifications and associated costs based on program requirements 3.2 Develop and document detailed on-site procedures and schedules required for program
4. Monitor plant growth and evaluate the program	4.1 Monitor program implementation and results by testing soil, plants and produce 4.2 Review and refine program to ensure it is responsive to changing conditions 4.3 Identify non-compliance with documented objectives and specifications and implement remedial actions to alleviate or overcome identified shortcomings in program

Element	Performance criteria
	4.4 Take remedial action to improve plant nutrition and document 4.5 Incorporate agreed changes into a detailed plan

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCPCM402A Develop a soil health and plant nutrition program.

Links

Companion Volume implementation guides are found in VETNet -

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