



Australian Government

AHCPCM507 Diagnose plant health problems

Release: 1

AHPCM507 Diagnose plant health problems

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 determine, monitor, diagnose and remedy plant health problems and evaluate a control plan.

The unit applies to individuals who apply specialised skills and knowledge to diagnose plant health problems, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

All work is 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

Plant Culture and Management (PCM)

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. Determine factors that influence plant health	1.1 Identify the plant species to the lowest taxonomic level, and state its region of origin 1.2 Determine plant seasonal growth stages

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	<p>1.3 Record daily cultural practices used on each horticultural species</p> <p>1.4 Determine the growing environment characteristics that affect the growth of a specific plant species</p> <p>1.5 Identify environmental and cultural factors that predispose plants to attack by pests and diseases</p> <p>1.6 Record climatic data and environmental growing conditions</p> <p>1.7 Record the presence or numbers of beneficial organisms</p>
2. Monitor and diagnose plant health problems	<p>2.1 Identify the symptoms and signs of plant health problems using accepted nomenclature</p> <p>2.2 Assess the severity and extent of the problem in a plant species</p> <p>2.3 Compare observations with published data, historical records and own experience</p> <p>2.4 Determine possible causes of the plant health problem</p> <p>2.5 Consult with specialist services in severe, complex or rapid onset cases</p> <p>2.6 Sample plant or soil specimens, and dispatch for specialist diagnosis or laboratory testing where required</p> <p>2.7 Record and document plant disorders and problems in a report</p>
3. Remedy plant health problems	<p>3.1 Formulate and document a weed, pest and disease control plan according to workplace integrated pest management (IPM) strategy and production plan requirements</p> <p>3.2 Identify a range of modifications to growing conditions for a specific situation or plant species to rectify plant health problems</p> <p>3.3 Identify, cost and confirm availability of resources, tools, equipment and machinery required for work activities, and analyse benefits</p> <p>3.4 Identify hazards and assess risks associated with work activities, and implement control measures according to workplace health and safety procedures</p> <p>3.5 Identify and minimise environmental impacts of weed, pest and disease control plan according to environmental and biosecurity legislation, regulations and workplace procedures</p>
4. Evaluate control plan	<p>4.1 Monitor plants during treatment</p> <p>4.2 Record and analyse monitoring data</p>

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.3 Compare observations and data to expected results 4.4 Recommend control plan modifications to client or management 4.5 Document and present control plan report to client or management

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	<ul style="list-style-type: none"> Identify and interpret textual information regarding plant growing requirements, cultural practices and factors, signs of health problems, and weed, pest and disease control
Oral communication	<ul style="list-style-type: none"> Initiate discussions with specialist services, clients or management, using clear language to communicate severe, complex or rapid onset cases, recommend control plan modifications, and present control plan report
Numeracy	<ul style="list-style-type: none"> Access and analyse climatic data, published data and historical records for input into plant disorders and problems report and weed, pest and disease control plan Calculate and analyse resources, tools, equipment and machinery costs

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHPCM507 Diagnose plant health problems	AHPCM501 Diagnose plant health problems	Minor changes to application Major changes to performance criteria Foundation skills added Assessment requirements	Not equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
		updated	

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>