Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 5.0.
Release 1	Initial release

AHCPCM506	Develop an integrated pest management program
Application	This unit of competency describes the skills and knowledge required to develop an integrated pest management (IPM) program, including; determining IPM strategy, designing control measures, documenting the IPM program, and monitoring program activities and control procedures.
	The unit applies to individuals who apply specialised skills and knowledge to develop an IPM program, 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.
Prerequisite Unit	Nil
Unit Sector	Plant culture and management (PCM)

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Determine IPM strategy	1.1 Identify weed, pest and disease infestations considering workplace requirements 1.2 Define weed, pest and disease relationships and vectors as key factors in developing the integrated pest management (IPM) program 1.3 Develop a system to assess the size and extent of any infestation 1.4 Assess business implications and urgency of action according to published data, workplace procedures and economic threshold 1.5 Identify and report conditions likely to impact on business viability 1.6 Determine the economic threshold for the crops grown
2. Design control measures for weeds, pests or diseases	2.1 Determine the appropriate method to control any weed, pest or disease issue that ensures limited impact on beneficial organisms and minimises the possibility of weeds, pests or diseases developing resistance 2.2 Develop strategies to ensure minimal or no risk of resistance developing in the range of weeds, pests or diseases identified 2.3 Ensure control measures account for the damage threshold of the particular crop and that product still conforms to market access and workplace requirements 2.4 Develop a weed, pest or disease prevention program where possible to minimise, limit or remove risk factors 2.5 Identify and cost resources, tools, equipment and machinery required for IPM strategy 2.6 Document IPM program

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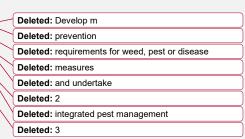Deleted: develop an

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Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
3. Monitoring IPM program activities and control procedures.	3.1 Monitor IPM program activities and identify thresholds for remedial action 3.2 Undertake and document remedial action or contingency plan where necessary 3.3 Ensure control procedures reflect sound implementation of IPM strategy and program, marketing objectives and business imperatives 3.4 Monitor control procedures and undertake remedial action where necessary

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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	• Identify and interpret information from a range of sources to identify relevant and key information about IPM strategy requirements and key factors in program development
Writing	• Develop an IPM program
Numeracy	• Calculate resources, tools, equipment and machinery costs

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPCM506 Develop an integrated pest management program Release 2	AHCPCM506 Develop an integrated pest management program Release 1	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent unit

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

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See *Guidelines* for the skills to be described, the order in which to list them and hints on writing descriptions

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TITLE	Assessment requirements for AHCPCM506 Develop an integrated pest management program

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 developed an integrated pest management (IPM) program on at least one occasion and has:
- determined IPM strategy
- applied relevant workplace health and safety, and environmental and biosecurity legislation, regulations and workplace procedures
- determined business and crop economic threshold
- developed and documented an IPM program based on analysis of weed, pest or disease presence
- monitored IPM program activities and control procedures
- monitored costs of IPM program to meet budget requirements
- overseen the implementation of the IPM program.

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:
- workplace health and safety, and environmental and biosecurity legislation, regulations and workplace procedures relevant to developing an IPM program
- principles and practices for developing integrated pest management programs, including:
  - application techniques for chemical and non-chemical treatments
  - concept and principles of IPM
  - cost and benefit analysis relevant to selection of weed, pest and disease control measures
  - crop and plant scouting and monitoring
  - ecological impacts of different control treatments
  - integration of weed, pest and disease control measures
  - lifecycles of hosts, predators and pests and diseases
  - sustainable horticultural practices
  - weeds and pests of specific horticultural workplaces.

Assessment Conditions

Assessment of skills must take place under the following conditions:
- physical conditions:
  - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - published data, crop and business economic thresholds, workplace marketing objectives, business imperatives and sustainable horticultural practice information relevant to developing an IPM program
  - industry publications and internet sources of information relevant to developing an IPM program
- specifications:
  - workplace health and safety, and environmental and biosecurity legislation, regulations and workplace procedures relevant to developing an IPM program.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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