



Australian Government

AHCPMG413 Define the pest problem

Release: 2

AHCPMG413 Define the pest problem

Modification History

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

Application

This unit of competency describes the skills and knowledge required to apply a strategic pest management approach to define a weed, vertebrate or invertebrate pest problem for a target area.

The unit applies to individuals who use consultation and analysis to define the pest problem. They exercise autonomy in undertaking complex work and analyse, design and communicate solutions to sometimes complex problems.

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

Pest Management (PMG)

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. Establish the background to the target pest problem	1.1 Determine landscape and land use within target area 1.2 Consult with stakeholders to identify and record views and issues for target pest 1.3 Define desired environmental management and production

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	outcomes 1.4 Collect and record information about management or production processes relating to pest problem 1.5 Determine non-target species populations in target area according to ecological data
2. Analyse the target pest problem in the area	2.1 Establish and document stakeholder views on the distribution of target pest within affected area 2.2 Source and analyse information to validate stakeholder views for target pest population, damage, and distribution 2.3 Identify environmental and pest biology factors which influence the target pest population and distribution 2.4 Document the target pest lifecycle, optimum times, locations and behaviours that impact program effectiveness 2.5 Identify non-target species populations and distribution 2.6 Identify hazards, risks and controls for non-target species, environment, ecology and production in target area 2.7 Identify potential ecological role of target pest
3. Determine critical control points for management of the target pest problem	3.1 Determine timing of control activities for periods of least risk to off target activities and conditions 3.2 Identify periods of significant vulnerability during target pest lifecycle 3.3 Determine appropriate time period for pest management activity
4. Define and document the impacts of the target pest	4.1 Estimate economic losses and environmental impacts of the pest presence 4.2 Conduct a cost-benefit analysis of managing pest in accordance with workplace plans 4.3 Prepare a report on outcomes of investigation for stakeholders according to workplace procedures 4.4 Assess whether the pest problem warrants the need for a pest management plan

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	Critically analyse documents and data from a variety of sources and consolidates information to determine requirements for management plans
Writing	- Document outcomes of consultations and incorporates details into report - Document report using industry relevant terminology, structure and format
Numeracy	Perform mathematical calculations to analyse costs and values to accurately create a cost benefit analysis
Oral Communication	Determine and confirm client views and opinion using collaborative and inclusive techniques including active listening and questioning and reading of verbal and non-verbal signals to convey and clarify information and to confirm understanding
Navigate the world of work	- Work independently or with others in making decisions to achieve organisation outcomes - Take full responsibility for following, procedures and legislative requirements
Get the work done	- Accept responsibility for planning and sequencing complex tasks and workload, negotiating key aspects with others taking into account capabilities, efficiencies and effectiveness - Apply systematic and analytical decision-making processes for complex and non-routine situations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPMG413 Define the pest problem Release 2	AHCPMG413 Define the pest problem Release 1	Minor changes to Performance Criteria for clarity Updated Performance Evidence and Knowledge Evidence	Equivalent unit

Links

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

Assessment Requirements for AHCPMG413 Define the pest problem

Modification History

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that on at least one occasion the individual has demonstrated that they have produced a written report that details the pest problem in a target area, including:

- identified and consulted with stakeholders
- collected information on pest impact and defined the pest problem in consultation with stakeholders
- determined the target pest population and distribution and factors impacting population and distribution
- determined non-target species populations and distribution in area
- accessed and analysed information to validate pest impact
- identified appropriate times for pest control activities and identified and documented pests' characteristics that impact on program effectiveness
- conducted a cost-benefit analysis for managing target pest
- prepared a report and assessed the viability for a pest management plan for pest population
- identified environmental impact of pest presence and pest management activity.

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:

- impact of pests on environment, land use, land management and production processes
- behaviour of target pests, particularly those behaviours that impact pest susceptibility to being effectively managed
- animal welfare and related codes of practice and workplace procedures
- pest biology and lifecycles of target pests

- principles that underpin the strategic approach to managing pests
- land management and production processes of targeted area
- ecology of targeted area
- performance criteria for measuring land management and production outcomes
- techniques used to validate the target pest population and distribution data supplied by stakeholders and sources of relevant data
- measuring or estimating economic implication and environmental impacts of pests
- potential ecological role some pests provide
- potential disease or toxicity risks
- relevant parts of local, regional, state or territory and national pest management strategies
- factors that influence pest population and distribution
- periods of vulnerability in the lifecycle of pests
- critical control points for management of pest problem
- range of pests, non-target species, plant pests and diseases.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - site with pests to evaluate
 - technology and resources for documenting reports and cost benefit analysis
- specifications:
 - workplace documents including policies, procedures, processes
 - research materials and data for pests
 - workplace instructions and job specifications
 - specific legislation and codes of practice.

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

Links

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