



Australian Government

FBPVIT3010 Implement a soil management program

Release: 1

FBPVIT3010 Implement a soil management program

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to monitor soil requirements and implement and evaluate a soil management program.

The unit applies to individuals who carry out workplace procedures in consultation with the manager in completing tasks associated with implementing a soil management program.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety, and food safety regulations, legislation and standards that apply to the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Viticulture (VIT)

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. Monitor vineyard soil management requirements	1.1 Interpret and confirm job requirements 1.2 Confirm environmental guidelines and identify potential workplace health and safety hazards and controls according to workplace procedures 1.3 Select and fit personal protective equipment according to the job

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	requirements 1.4 Monitor vineyard soil and interpret results according to workplace procedures 1.5 Sample and test soils to determine options for soil management 1.6 Identify and recommend appropriate soil management activities to supervisor for approval
2. Implement soil management program	2.1 Coordinate resources and brief personnel to undertake soil improvement 2.2 Implement approved soil management activities 2.3 Monitor soil management activities to maintain program within specification
3. Evaluate effectiveness of soil management program	3.1 Monitor vineyard soil to evaluate effectiveness of activities 3.2 Monitor surrounding areas to evaluate environmental impact of soil management activities 3.3 Recognise and address non-conformances according to workplace procedures 3.4 Document soil management information according to workplace procedures

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	Interpret information from a variety of workplace documents
Writing	Produce workplace documents in required format
Numeracy	Calculate numerical information relating to specifications, treatments and schedules
Navigate the world of work	Apply workplace procedures and legislative responsibilities relevant to own role

Skill	Description
Interact with others	• Use required communication mode to report operational information to relevant personnel
Get the work done	• Respond to routine problems by referring to workplace procedures • Plan and organise tasks to achieve job requirements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPVIT3010 Implement a soil management program	FDFWGG3010A Implement a soil management program	Updated to meet Standards for Training Packages Code changed to reflect industry sector Minor changes to Performance Criteria for clarity Prerequisites removed	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPVIT3010 Implement a soil management program

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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 monitored, implemented and evaluated a soil management program for a vineyard at least once and demonstrated the following including:

- accessing workplace information to identify vineyard soil requirements
- ensuring use of workplace health and safety procedures
- selecting and fitting personal protective equipment
- determining requirements for vineyard soil management and making recommendations for approval
- coordinating resources and activities to implement soil management program
- monitoring and identifying non-conformances with the effectiveness of soil management program
- completing workplace records.

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 hazards and controls including selecting, fitting and using appropriate personal protective equipment
- soil management techniques and their effect on soil, vine growth, cropping levels and wine quality:
 - ideal soil environment for vines plus specific requirements of grapes grown
 - visual signs of vine nutrient deficiencies
 - sampling techniques and procedures
 - routine testing techniques and procedures
 - interpretation of routine tests

- procedures for monitoring the vineyard and interpreting the results to identify vineyard soil management requirements, including:
 - soil moisture content
 - water table level
 - weed population
 - nutrient levels in plant and soil
 - signs of vine nutrient deficiencies
 - climatic conditions
 - cover crop practices
 - soil analyses including pH and salinity
 - evidence of hard pans
 - soil texture
 - vine root distribution
 - irrigation water quality
 - erosion risk
 - soil management history
 - growth of mid-row sward
- procedures for planning and implementing the soil management program:
 - resources, including operators with appropriate skills
 - equipment availability and capability
 - materials and chemicals
 - maintenance programs and supplies
 - specific needs of individual blocks
 - application rates for soil addition
 - environmental conditions
- procedures for monitoring soil management activities:
 - operator performance
 - operating conditions
 - operating results
 - material supplies
 - equipment performance
- how to identify, rectify and report environmental non-conformance
- procedures and responsibility for reporting non-conformance
- consulting with appropriate personnel:
 - presenting and justifying recommendations to senior personnel
 - instructing and supervising operators
- application rates for soil addition
- how to complete workplace records.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a vineyard workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective equipment
 - sampling and testing equipment, services and corresponding information
 - vineyard soils and growing media
 - documentation and recording requirements and procedures
- specifications:
 - work procedures, including advice on company practices, safe work practices, soil quality and environmental requirements
 - work instructions and schedules.

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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