



Australian Government

FBPVIT2019 Operate the irrigation system

Release: 1

FBPVIT2019 Operate the irrigation system

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 operate the irrigation system and implement the irrigation system maintenance schedule according to instructions.

The unit applies to individuals who work under general supervision to use irrigation systems.

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. Prepare the irrigation system for operation	1.1 Confirm work instructions 1.2 Confirm environmental guidelines and identify potential health and safety hazards and controls 1.3 Select and fit personal protective equipment relevant to the job requirements 1.4 Check equipment is ready for use according to workplace

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	procedures
2. Operate the irrigation system	2.1 Start the irrigation system according to workplace procedures 2.2 Set irrigation requirements according to instructions 2.3 Monitor the control points to confirm that performance is maintained within specification 2.4 Rectify out-of-specification system performance and report details
3. Complete operation of the irrigation system	3.1 Shut down the irrigation system according to workplace procedures 3.2 Implement cleaning and maintenance activities, in line with schedule 3.3 Out of specification performance is identified, rectified and reported to supervisor in accordance with responsibilities of own role 3.4 Collect, treat and sustainably dispose of waste generated by both the process and cleaning procedures, according to workplace procedures 3.5 Record workplace 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	Access and interpret work instructions, standard operating procedures and maintenance schedules
Oral communication	Interact effectively with supervisor, including actively listening to instructions, asking for clarification and seeking advice
Get the job done	Problem solve issues as they arise

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPVIT2019 Operate the irrigation system	FDFWGG2014A Operate the irrigation system	Updated to meet Standards for Training Packages Minor changes to Elements and Performance Criteria to clarify outcomes Foundation skills added Assessment requirements updated	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 FBPVIT2019 Operate the irrigation system

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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 effectively operated the irrigation system on at least one occasion, including:

- using appropriate personal protective clothing and equipment
- setting equipment correctly to achieve specified irrigation time, application rate and pressure
- monitoring irrigation process control points and equipment
- taking corrective action in response to out-of-specification activity
- recording performance and maintenance information accurately.

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:

- basic plant physiology in relation to the irrigation system, including:
 - transpiration
 - water intake
 - nutrient uptake
 - respiration
 - translocation
- different types of irrigation systems and the advantages and disadvantages of each
- components of irrigation equipment and the function of each, including:
 - drippers
 - pipelines
 - sprinklers
 - filters
 - microjets
 - pumps

- furrows
- valves
- motors
- timers
- windmills
- types of maintenance and repairs that need to be undertaken, including issues with:
 - breakages
 - leaks
 - blocks
 - replacing drippers
 - making joins
 - filters and turbo keys
 - monitoring devices
 - priming pumps and motors
- routine cleaning and maintenance requirements and procedures for the system
- information technology systems where relevant
- environmentally sound methods to treat and dispose of waste
- organisational recording and reporting requirements.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - irrigation equipment
 - irrigation site
- specifications:
 - work instructions and maintenance schedules.

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

Links

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