



Australian Government

Assessment Requirements for FBPVIT3012 Implement an irrigation schedule

Release: 1

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Modification History

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

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 implemented an irrigation schedule for at least one vineyard, or part of, including:

- determining requirements for water and nutrients
- planning an irrigation schedule
- implementing the irrigation plan and addressing problems and anomalies
- evaluating the effectiveness of the irrigation schedule.

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:

- effect of irrigation techniques on vine growth, cropping levels and wine quality, including partial root zone drying (PRD) and regulated deficit irrigation (RDI)
 - effect of water and additives on vines during different key phenological stages
 - visual symptoms of vine nutrient deficiencies, water stress and frost
 - principles of soil moisture monitoring, including volumetric soil moisture content, and percentage compared to soil moisture tension
 - factors to be considered when planning irrigation, including:
 - soil moisture content
 - water table level
 - water quality
 - signs of vine nutrient deficiencies
 - climatic conditions
 - frost risk
 - grape variety
 - soil type and depth
 - closeness to harvest
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- yield parameters
 - age of vine
 - grape quality requirements
 - symptoms of vine water stress
 - effective root depth
 - methods to calculate chemical application rates for injection requirements
 - sampling and testing techniques typically used in a vineyard
 - issues to be monitored and corrected:
 - measuring nitrogen output
 - measuring chlorine output
 - identifying soil moisture content and depth to which water will reach
 - identifying emitter output consistency
 - interaction between different irrigation valves or shifts
 - recording requirements and procedures
 - information technology systems where relevant.

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
 - sampling and testing equipment
- specifications:
 - work instructions and schedules
 - manufacturer instructions for equipment
 - safety data sheets for chemicals.

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

Links

Companion Volume Implementation Guides are found in VETNet: -

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