



Australian Government

FBPVIT2016 Carry out hot water treatment

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.

Application

This unit of competency describes the skills and knowledge required to treat grape vine cuttings with hot water to meet industry standards.

The unit applies to individuals who are required to follow workplace procedures to use hot water treatment for cuttings in a vineyard.

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>

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for hot water treatment	1.1 Confirm job requirements 1.2 Confirm environmental guidelines and identify potential health and safety hazards and controls according to workplace procedures 1.3 Select, fit and use appropriate personal protective equipment relevant to the job requirements 1.4 Ensure cuttings are available and ready for use 1.5 Clean and set up the hot water treatment (HWT) tank and cool down tank to remove foreign matter and contaminants according to industry standard 1.6 Prepare water for hot water treatment, hydration and cool down according to specifications 1.7 Check, maintain and calibrate equipment to meet production specifications
2. Treat cuttings	2.1 Load cuttings into treatment basket and lower into HWT according to workplace procedures 2.2 Monitor temperature and control parameters according to workplace procedures 2.3 Lower cuttings into the cool down tank according to workplace procedures 2.4 Identify and address non-conformances
3. Carry out post-treatment procedures	3.1 Unload treatment basket according to workplace procedures 3.2 Store and label treated cuttings according to workplace procedures 3.3 Check chlorine levels and sanitation requirements for water quality according to workplace procedures 3.4 Collect and dispose of waste according to workplace environmental and waste management procedures 3.5 Record treatment information and complete logs or batch information according to workplace requirements

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	Comprehend information from a variety of workplace documents
Writing	Record hot water treatment information in required format
Numeracy	Monitor temperature gauges and interpret numerical information relevant to the hot water treatment process
Navigate the world of work	Apply workplace procedures to own role and responsibilities
Get the work done	Respond to routine problems by referring to workplace procedures

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPVIT2016 Carry out hot water treatment	FDFWGG2020A Carry out hot water treatment	Updated to meet Standards for Training Packages Code changed to reflect industry sector Minor changes to Performance Criteria for clarity	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 FBPVIT2016 Carry out hot water treatment

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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 prepared hot water treatments, treated cuttings and carried out the post-treatment procedures on at least two separate occasions and demonstrated the following:

- identifying health and safety hazards and controls in the workplace
- selecting, fitting and using personal protective equipment according to job requirements
- applying current viticulture industry standards to heat treatment of cuttings
- handling and treating cuttings according to workplace procedures
- monitoring treatment processes and responding according to workplace procedures
- disposing of waste according to instructions and workplace procedures
- maintaining records according to industry and workplace requirements.

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:

- purpose and process of hot water treatment
- how to set up equipment for hot water treatment according to workplace procedures
- how to prepare cuttings for treatment or re-hydration
- how to prepare water for cool down, hot water treatment and hydration:
 - testing and adjusting chlorination levels
 - checking and adjusting temperature levels
- current industry standards, legislation and workplace specifications for hot water treatments
- reasons for using different specifications for hot water treatments
- how to monitor the dipping process to ensure compliance according to workplace procedures including:

- monitoring critical control points for compliance with specifications
- analysing readouts from data logging devices
- maintaining level of agitation in the tanks
- maintaining chlorine level
- recalibrating thermometers
- procedures for storing treated cuttings:
 - separating from untreated cuttings to prevent contamination
 - covering with clean covers
 - placing cuttings in vented plastic bags to prevent dehydration
 - placing cuttings in the cold room
- workplace health and safety hazards and controls when undertaking hot water treatments
- principles of nursery hygiene
- cleaning requirements and procedures for work area and equipment
- environmental issues and controls:
 - identifying, rectifying and reporting environmental non-compliance
 - waste disposal requirements and procedures
- reporting and recording workplace procedures.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a plant nursery workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective equipment used for heat treatment of vines
 - equipment, services and corresponding information
 - products and materials to be treated
 - equipment cleaning procedures and materials
 - system for recording requirements and procedures
- specifications:
 - work procedures, including advice on company practices, safe work practices and environmental requirements
 - legislative and local quarantine regulations and codes of practice and industry standards for heat treatment of grape vines
 - 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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