



Australian Government

FBPCEL3004 Operate an earth filtration process

Release: 1

FBPCEL3004 Operate an earth filtration process

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 prepare for and operate an earth filtration process using a range of filter media.

The unit applies to individuals who work in a wine operations cellar environment and take responsibility for their own work using discretion and judgement in the selection and use of available resources.

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

Cellar Operations (CEL)

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 earth filtration process for operation	1.1 Identify job requirements 1.2 Confirm availability of required materials and services to meet production requirements 1.3 Confirm environmental guidelines and identify potential health

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and safety hazards and controls according to workplace procedures 1.4 Select and fit personal protective equipment relevant to the job requirements 1.5 Prepare materials to meet production requirements 1.6 Check equipment to confirm readiness for use according to workplace procedures 1.7 Set the earth filtration process to meet production requirements
2. Operate and monitor the earth filtration process	2.1 Start up the earth filtration process according to workplace procedures 2.2 Monitor process to confirm earth filtration meets specifications 2.3 Identify and address non-conformance of product, process and equipment according to workplace procedures
3. Shut down the earth filtration process	3.1 Identify and implement appropriate shutdown procedures 3.2 Dismantle equipment safely and prepare for cleaning 3.3 Collect, treat and dispose of or recycle waste generated by both the earth filtration process and cleaning procedures 3.4 Record workplace information according to workplace procedures and format

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 instructions in workplace documents
Writing	Complete workplace documents in required format
Numeracy	- Perform calculations relating to measurements, quantities and operational specifications - Interpret symbols and numbers during monitoring of process
Navigate the world of	Apply workplace procedures and legislative responsibilities to

Skill	Description
work	own role
Interact with others	Use required communication mode to report operational information to relevant personnel
Get the work done	- Plan, sequence and implement tasks according to set routines and procedures - Problem solve issues as they arise

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPCEL3004 Operate an earth filtration process	FDFCEL2013A Operate the pressure leaf filtration process	Updated to meet Standards for Training Packages Minor changes to Elements and Performance Criteria for clarity Change of title to reflect current Industry terminology Prerequisites removed Unit code updated to AQF 3 to reflect complexity of competency	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 FBPCEL3004 Operate an earth filtration process

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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 demonstrated at least one earth filtration process, including:

- accessing workplace information to identify earth filtration processing requirements
- selecting and fitting appropriate personal protective equipment (PPE)
- checking supply and status of materials before commencing earth filtration operation
- preparing and confirming status of equipment and services before commencing earth filtration process
- setting up and starting the earth filtration process
- monitoring the earth filtration process
- taking corrective action in response to non-conformance results
- shutting down the process after earth filtration operations are completed
- conducting work according to environmental and health and safety requirements in the workplace.

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 of the earth filtration process and the links between earth filtration and other processes used in wine operations
- use of filter media:
 - diatomaceous earth (DE)
 - perlite
 - cellulose
- materials used in the earth filtration process including:
 - preparation requirements and effect of variation on the earth filtration process

- main earth filtration techniques and how these techniques can affect the characteristics of the wine
- methods used to monitor the process
- common causes of non-conformance results for product, process and equipment and corrective action required including:
 - issues that can be rectified
 - issues that must be reported
- responsibilities for health and safety in the workplace including:
 - health and safety hazards associated with the earth filtration process
 - methods for controlling risks associated with health and safety hazards
- responsibilities for identifying and controlling environmental issues
- workplace procedures and responsibility for:
 - reporting problems
 - shutting down the process
 - cleaning
 - handling waste
 - recording required information.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a wine operations workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - PPE for earth filtration operations
 - equipment and materials for earth filtration process
 - products for earth filtration process
 - system for recording and reporting information
- specifications:
 - workplace procedures for earth filtration operations.

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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