



Australian Government

FBPCEL3003 Operate the concentration process

Release: 1

FBPCEL3003 Operate the concentration 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 operate and monitor a continuous centrifugal juice concentrator to produce juice products for wine making.

The unit applies to individuals who work in cellar operations 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 concentration process for operation	1.1 Identify and confirm production requirements 1.2 Confirm availability of required materials and services to meet production requirements 1.3 Confirm environmental guidelines and identify potential health and safety in the workplace hazards and controls in accordance with

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	workplace procedures 1.4 Select and fit personal protective equipment required for production 1.5 Check equipment to confirm readiness for use according to workplace procedures 1.6 Set the process to meet concentration requirements
2. Operate and monitor the concentration process	2.1 Start up the concentration process according to workplace procedures 2.2 Monitor production process to confirm concentration meets specification 2.3 Identify and address non-conformance product, process and equipment according to workplace procedures
3. Shut down the concentration 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 concentration process and cleaning procedures 3.4 Record workplace 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	Interpret production and process information from a variety of workplace documents
Writing	Record data and present information in required format
Numeracy	- Calculate numerical information 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 required to achieve production requirements • Respond to predictable routine problems, faults and out of specification issues and implements standard or logical solutions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPCEL3003 Operate the concentration process	FDFCEL3003A Operate the concentration process	Updated to meet Standards for Training Packages Minor changes to Elements and 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 FBPCEL3003 Operate the concentration 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 operated the concentration process and demonstrated the following at least once:

- accessing workplace information to identify concentration requirements
- identifying legislative and workplace requirements related to the concentration process
- selecting, fitting and using personal protective equipment
- confirming equipment status and condition
- selecting, setting up and operating the concentration process
- monitoring the process and equipment operation to identify non-conformance results
- taking corrective action in response to non-conformance results
- following equipment shutdown procedures
- preparing equipment for cleaning including draining and dismantling equipment, and removing waste either manually or by rinsing, in preparation for cleaning
- conducting work according to environmental and health and safety procedures.

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 principles of concentration operation and the links between concentration and related processes
- stages and changes which occur during concentration operation
- effect of process stages on end product
- quality characteristics and uses of concentrated product
- main controls used in concentration process:
 - flow rates
 - operating vacuum

- operating temperatures
- cone rpm
- dilution and product loss
- common causes of variation and corrective action required
- routine shutdown and cleaning preparation requirements
- typical workplace hazards and controls
- procedures and responsibility for:
 - reporting problems
 - environmental issues and controls
 - waste handling requirements
 - recording requirements.

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:
 - personal protective equipment required for the concentration process
 - concentration equipment and materials required for process
 - system for recording and reporting information
- specifications:
 - workplace procedures for concentration process.

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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