



Australian Government

FBPCEL4003 Coordinate wine operations filtration processes

Release: 1

FBPCEL4003 Coordinate wine operations filtration processes

Modification History

Release	Comments
Release 1	This version released with Food, Beverage and Pharmaceutical Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to coordinate work teams to set up, operate, hand over and shut down filtration wine operation processes.

The unit applies to individuals who work in a commercial winery and are responsible for coordinating several work teams in filtration wine operations processes to produce red or white wine. They take responsibility for their own work and the outcomes of others, and apply high level planning and problem-solving skills.

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 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 to coordinate a filtration shift	1.1 Confirm handover information from previous shift 1.2 Check work orders and other processing requirements for shift 1.3 Determine equipment preparation work required for the shift

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Confirm capacity of equipment and vessels for required volumes 1.5 Identify and prioritise work tasks and allocate team responsibilities 1.6 Schedule team member rest and meal breaks according to workplace requirement and environmental conditions 1.7 Coordinate equipment checks and set-up, and ensure safety equipment is operational 1.8 Ensure integrity testing on filters is carried out to meet required parameters 1.9 Coordinate supply of consumables
2. Monitor the filtration production	2.1 Oversee handover or start-up of production processes 2.2 Check workplace health and safety, housekeeping and staff welfare 2.3 Apply approved problem-solving principles and techniques to identify and rectify product, process, machine, equipment and operator faults 2.4 Ensure quantity, productivity and quality specifications are met 2.5 Ensure flow rates and differential pressures meet production requirements, and determine when filters are compromised 2.6 Report any outcomes that do not meet specifications, and major process problems 2.7 Report maintenance issues to machinery and equipment technicians 2.8 Communicate with filtration process team members and other team leaders about information that impacts on their work 2.9 Ensure accurate completion of records
3. Coordinate product changeover	3.1 Ensure current batch is complete, including push through 3.2 Coordinate cleaning and sanitising of machinery, equipment and vessels according to workplace requirements 3.3 Prepare equipment and consumables for upcoming batch 3.4 Oversee start-up of new batch 3.5 Coordinate completion of changeover records
4. Coordinate shutdown of the filtration processes	4.1 Ensure current batch is complete, including push through

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.2 Coordinate cleaning of machinery, equipment and vessels 4.3 Ensure filter change-outs are completed when filter media are expired 4.4 Advise machine technicians that machinery and equipment are ready for maintenance 4.5 Ensure disposal of waste according to workplace and environmental procedures 4.6 Ensure accurate completion of shutdown records

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 technical text and symbols in machinery operations manuals and procedures
Writing	Complete quality reports using correct terminology
Numeracy	- Estimate and calculate known and expected volumes in litres, hectolitres and kilolitres - Estimate and calculate quantity and time - Measure and calculate flow rates, including volume per hour
Oral communication	- Use open and closed questions to gather information from team members - Give clear instructions using industry terminology

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPCEL4003 Coordinate wine	Not applicable	The unit has been created to address an industry	Newly created

operations filtration processes		requirement	
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Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

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

Assessment Requirements for FBPCEL4003 Coordinate wine operations filtration processes

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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 independently coordinated the safe and efficient set-up, operation, handover and shutdown of two complete shifts of wine filtration processes. Each shift must be a minimum of eight hours. The individual must coordinate the filtration of at least two different batches of juice or wine, according to work orders.

For each shift, the individual must have:

- coordinated at least two of the following:
 - cross flow
 - earth
 - lenticular or pad
 - reverse osmosis
 - membrane
- checked filtration performance parameters, including the specified integrity testing
- controlled product specifications, including:
 - temperature
 - carbon dioxide
 - dissolved oxygen
 - nephelometric turbidity units (NTU)
- communicated with at least two cellar operations workers and with at least two of the following:
 - wine maker
 - cellar operations manager
 - maintenance team member
 - laboratory team member.

For each shift, the individual must have:

- coordinated at least two cellar operations workers, including scheduling start and finish times, meal and rest breaks
- addressed quality issues and anomalies caused by equipment failure and operator error
- addressed team members' health and safety requirements, including:
 - correct fit and use of personal protective equipment
 - machinery lock-out and isolation
 - compliance with vehicle and pedestrian traffic control
- monitored timely and accurate completion of workplace records, including:
 - production notes, including additions to products
 - machinery and equipment logs
 - workplace safety reports
- effectively coordinated a batch changeover according to workplace time 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:

- work orders and production schedules
- general operating principles of machinery and equipment, including:
 - cross flow filter equipment
 - earth filter equipment
 - membrane filter, including lenticular cartridge
 - reverse osmosis machine
 - inert gas related equipment, including bulk and small cylinders, regulators, valves and pipes
- features and functions of machinery and equipment used for the two processes selected in the performance evidence, including:
 - manufacturer and workplace instructions for safe operation
 - control panels and ancillary controls, including manual operations mode
 - operating capacities, efficiencies and applications
 - constraints and other limiting factors
 - location and purpose of sensors
 - knowledge of maintenance required and action to take if maintenance services are not available
 - cleaning requirements
 - filter change-out, integrity testing of filters, filter parameters and actions required to rectify
 - flow rates and differential pressures, and actions to take when filters are compromised
 - routine and non-routine machine and equipment faults, and process for rectification
- utility services, including electricity, water, compressed air and inert gases
- heat exchanging systems and equipment

- equipment and vessels, including:
 - volume
 - processing capacity
 - openings, doors and seals
 - valves and process flow
 - pressure testing
 - line check authorisations and procedures
- machinery and equipment checks, including:
 - pre-start checks, including emergency stop checks
 - lock-out and tag-out
 - return to service after isolation
- consumables, including:
 - cleaning products
 - water and gas supplies
 - filtration media
- typical problems related to consumables, including insufficient supplies, preparation, quality and identification
- staff welfare, including:
 - working conditions, including temperature, vibration, noise and dust
 - rostering, breaks, rest and fatigue management
- product and process quality indicators, including:
 - temperature
 - oxidation
- filtration performance parameters, including:
 - differential pressures
 - flow rates
 - integrity
 - NTU and solids
 - micro
- filtration quality control requirements, processes and actions, including:
 - production and processing order specifications
 - methods used to check quality
 - turbidity and equipment used to measure turbidity in NTU
 - common causes of filtration process quality issues, and corrective action required
 - planned sampling and testing associated with process monitoring and control
 - responding to machinery alerts and notifications
 - recording of results
- records and reporting requirements, including:
 - quality
 - productivity

- handover
- health and safety
- process information, including wine tracking
- application of push through processes, including:
 - water
 - gas
 - wine or juice
- product knowledge related to the batch being processed, including:
 - fruit variety
 - volume
 - client or receiver requirements or specifications
- the interrelationships between filtration processes and bottling, general cellar and packaging processes
- product and process changeover procedures and responsibilities
- product batch identification and traceability requirements, including:
 - workplace requirements
 - client or receiver requirements or specifications
 - batch records
- work health and safety hazards and controls, including:
 - awareness of the limitations of controls
 - protective clothing and equipment
 - hazardous substances, including stored pressure, additions and finings, cleaning products and gases
- procedures and responsibility for reporting production and performance information
- environmental issues and controls relevant to filtration process, including:
 - rework and reuse of products
 - water use and recycling
 - waste processing
 - energy usage
- materials and manual handling procedures related to filtration processes.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a commercial winery
- resources, equipment and materials:
 - machinery and equipment stipulated in the performance evidence
 - juice or wine stipulated in the performance evidence
- specifications:

- two work orders as stipulated in the performance evidence
- workplace procedures for operating filtration processes, machinery and equipment stipulated in the performance evidence
- relationships:
 - team members and others stipulated in the performance evidence.

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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