



Australian Government

Assessment Requirements for FBPCEL4003 Coordinate wine operations filtration processes

Release: 1

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Modification History

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

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 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

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>