Modification history

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| Release | Comments |
| Release 1 | This version released with FBP Food, Beverage and Pharmaceuticals Training Package version 2.0. |

| FBPCEL3010 | Operate the fine filtration process |
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| Application | This unit of competency describes the skills and knowledge required to prepare and operate the fine filtration process and equipment to achieve pre-set specifications for wine or juice products.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.No occupational licensing, legislative or certification requirements apply to this unit at the time of publicationAll work must be carried out to comply with workplace procedures, in accordance with State/Territory work health and safety, and food safety regulations, legislation and standards that apply to the workplace. |
| Prerequisite Unit | Nil |
| Unit Sector | Cellar Operations (CEL) - Clarification |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare the fine filtration process for operation | 1.1 Interpret and confirm work instructions and identify potential WHS hazards and controls in accordance with workplace procedures 1.2 Select and use personal protective clothing and equipment relevant to the job role 1.3 Confirm availability of services, product and materials to meet production requirements1.4 Check the integration of flow path in accordance with workplace procedures1.5 Check equipment and confirm readiness for use according to manufacturer specifications and workplace procedures1.6 Set the process to meet filtration requirements |
| 2. Operate and monitor the fine filtration process | 2.1 Start up the fine filtration process safely according to workplace procedures2.2 Monitor control points to confirm performance is maintained within specification2.3 Confirm that filtered product meets specification2.4 Monitor equipment to confirm operating condition2.5 Identify, rectify and report out-of-specification product, process and equipment performance |
| 3. Shut down the fine filtration process | 3.1 Shut the process down safely according to workplace procedures3.2 Dismantle equipment safely and prepare for cleaning3.3 Collect, treat and dispose of or recycle waste generated by both the filtration process and cleaning procedures3.4 Conduct work in accordance with workplace environmental guidelines3.5 Record workplace information according to workplace requirements and format |

| Foundation SkillsThis 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. |
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| Skill | Description |
| Reading | * Interpret textual information to identify key information in workplace procedures, work instructions and manufacturer specifications
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| Writing | * Complete workplace records relating to filtration process accurately
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| Numeracy | * Interpret symbols and numbers to calibrate equipment, set process parameters and monitor control points in filtration operations
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| Oral communication  | * Ask questions to clarify work instructions and use accurate industry terminology to report issues
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| Navigate the world of work | * Recognise and follow workplace procedures, including safety requirements, associated with own role and area of responsibility
* Take responsibility for decisions made to meet production requirements
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| Interact with others | * Follow accepted workplace practices and protocols for communicating information
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| Get the work done | * Organise and assemble resources and conduct multiple tasks involved in filtration operations, monitoring and adjusting processing parameters to achieve production requirements
* Recognise risks, hazards and routine problems related to filtration operations and initiate workplace procedures to resolve or report
* Use key features and functions and follow routine procedures for using digital technology or systems to record and/or report workplace information
* Recognise and act on opportunities for continuous improvement in accordance with workplace practices
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPCEL3010 Operate the fine filtration process | FDFCEL2010A Operate the fine filtration process | Updated to meet Standards for Training PackagesCode changeMinor changes to elements and performance criteria for clarity | Equivalent unit |

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

| TITLE | Assessment requirements for FBPCEL3010 Operate the fine 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 the fine filtration process on at least two separate occasions, including:* accessing and interpreting workplace information to identify filtration requirements
* selecting, fitting and using personal protective clothing and equipment
* confirming supply of necessary product and services
* preparing product including pre-filtering product to meet turbidity parameters of membrane
* confirming filtration equipment status and condition
* setting up and starting up the filtration process
* monitoring the process and equipment operation to identify out-of-specification results or non-compliance
* taking corrective action in response to out-of-specification results or non-compliance
* sorting, collecting, treating, recycling or disposing of waste
* shutting down equipment in routine and an emergency situation
* preparing equipment for cleaning including draining and dismantling equipment, and removing waste either manually or by rinsing, in preparation for cleaning and sanitation
* conducting work safely following work health and safety procedures.
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| Knowledge Evidence |
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| 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 fine filtration
* links between filtration and related processes
* stages and changes which occur during fine filtration
* effect of process stages on end product
* quality characteristics and uses of fine filtration product
* types and application of manual and computer controlled processes
* product preparation requirements and effect of variation on the process
* main methods used in fine filtration
* process specifications, procedures and operating parameters
* filtration equipment and instrumentation components, purpose and operation
* basic operating principles of process control systems
* significance and method of monitoring control points within the process
* common causes of variation and corrective action required
* shutdown and cleaning requirements associated with changeovers and types of shutdowns
* work health and safety hazards and controls relating to filtration operations
* workplace procedures relating to filtration operations and responsibility for:
* reporting problems
* environmental issues and controls
* waste handling requirements
* recording requirements.
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| Assessment Conditions |
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| * Assessment of skills must take place under the following conditions: • physical conditions:
* a workplace or an environment that accurately represents workplace conditions
* resources, equipment and materials:
* personal protective clothing and equipment for filtration operations
* filtration equipment and membranes, filters and related materials required for operations
* product for filtration
* cleaning materials, equipment and procedures
* documentation or technology for recording and reporting information
* specifications:

work instructions and workplace procedures for 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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