Modification history

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

| FBPCEL3002 | Operate the continuous clarification by separation (flotation) process |
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| Application | This unit of competency describes the skills and knowledge required to prepare for and operate the continuous clarification by separation (floatation) process in wine production.  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 publication.  All 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 continuous clarification by separation (flotation) process for operation | 1.1 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 Identify workplace health and safety hazards, assess risks and implement control measures  1.4 Confirm availability and prepare product and materials to meet clarification requirements  1.5 Confirm that services are available and ready for operation  1.6 Check equipment and confirm readiness for use according to manufacturer specifications and workplace procedures  1.7 Set the process to meet clarification requirements |
| 2. Operate and monitor the continuous clarification by separation (flotation) process | 2.1 Start up the flotation process safely according to workplace procedures  2.2 Monitor control points to confirm performance is maintained within specification  2.3 Confirm that clarified product meets specification  2.4 Monitor equipment to confirm operating condition  2.5 Identify, rectify and report out-of-specification product, process and equipment performance |
| 3. Shut down the continuous clarification by separation (flotation) process | 3.1 Shut the process down according to workplace procedures  3.2 Dismantle equipment safely and prepare for cleaning  3.3 Collect, treat and dispose of or recycle waste generated by both the process and cleaning procedures  3.4 Conduct work in accordance with workplace environmental guidelines  3.5 Record workplace information according to workplace requirements 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. | |
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| Skill | Description |
| Reading | * Interpret textual information to identify key information in workplace procedures, work instructions and manufacturer specifications |
| Writing | * Complete workplace records relating to clarification process accurately |
| Numeracy | * Interpret symbols and numbers to calibrate equipment, set process parameters and monitor control points in clarification process |
| Oral communication | * Ask questions to clarify work instructions and use accurate industry terminology to report issues |
| Navigate the world of work | * Recognise and follow workplace procedures and safety requirements associated with own role and area of responsibility * Take responsibility for decisions made to meet process requirements |
| Interact with others | * Follow accepted workplace practices and protocols for communicating information |
| Get the work done | * Organise and assemble resources and conduct multiple tasks to meet clarification process requirements; monitoring and adjusting processing parameters to achieve production specifications * Recognise risks, hazards and routine problems related to clarification by separation (flotation) process 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 |
| FBPCEL3002 Operate the continuous clarification by separation (flotation) process | FDFCEL3002A Operate the continuous clarification by seperation (flotation) process | Updated to meet Standards for Training Packages  Minor changes to elements and performance criteria for clarity  Removal of prerequisite no longer required by industry | 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 FBPCEL3002 Operate the continuous clarification by separation (flotation) 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 continuous clarification by separation (flotation) process at least once, including:   * accessing and interpreting workplace information to identify clarification requirements * selecting, fitting and using personal protective clothing and equipment * confirming supply of necessary product and services * preparing product * confirming clarification equipment status and condition * setting up and starting up the clarification 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 * shutting down equipment in routine and emergency situations * 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. | |

| 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 continuous clarification by separation (flotation) * links between continuous clarification by separation (flotation) and related processes * stages and changes which occur during continuous clarification by separation (flotation) * effect of process stages on end product * checking pectin negative: * adding sulphur * cooling product * adding pectin enzymes * quality characteristics and uses of continuous clarification by separation (flotation) product * product preparation requirements and effect of variation on the process * main methods used in continuous clarification by separation (flotation): * flow rates * dosage rates * dosage ratios * gas rates * pressure * weir level * product loss * dilution * oxidation * relevant product characteristics (e.g. variety, turbidity and solids content) * process specifications, procedures and operating parameters * flotation 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 * procedures and responsibility for: * reporting problems * environmental issues and controls * waste handling requirements * recording requirements. |

| 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 continuous clarification by separation (flotation) process * flotation equipment and materials, and product required for process * cleaning materials, equipment and procedures * documentation or technology for recording and reporting information * specifications: * work instructions and workplace procedures for continuous clarification by separation (flotation) 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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