Modification history

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

| FBPCEL3007 | Operate clarification by separation (centrifugation) process |
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| Application | This unit of competency describes the skills and knowledge required to prepare for and operate the clarification by separation (centrifugation) process.  The unit applies to individuals who 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 clarification by separation (centrifugation) 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 product and materials to meet production requirements and prepare for operation  1.4 Confirm that services are available and ready for operation  1.5 Check equipment and confirm readiness for use according to manufacturer specifications and workplace procedures  1.6 Set the process to meet clarification requirements |
| 2. Operate and monitor the clarification by separation (centrifugation) process | 2.1 Start up the centrifugation process safely according to workplace procedures  2.2 Monitor control points to confirm performance is maintained within specification  2.3 Confirm 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 clarification by separation (centrifugation) process | 3.1 Shut the process down safely 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 by separation process accurately |
| Numeracy | * Interpret symbols and numbers to calibrate equipment, set process parameters and monitor control points in clarification by separation operations |
| 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, including safety requirements, associated with own role and area of responsibility * Take responsibility for decisions made to meet production 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 by separation (centrifugation) operation requirements, monitoring and adjusting processing parameters to achieve production requirements * Recognise risks, hazards and routine problems related to clarification by separation 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 |
| FBPCEL3007 Operate clarification by separation (centrifugation) process | FDFCEL2006A Operate clarification by separation (centrifugation) process | Updated to meet Standards for Training Packages  Code change  Minor changes to elements and performance criteria for clarity  Removal of prerequisites 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 FBPCEL3007 Operate clarification by separation (centrifugation) 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 clarification by separation (centrifugation) process at least once, including:   * accessing workplace information to identify clarification requirements * selecting, fitting and using personal protective clothing and equipment * confirming supply of necessary product and services * preparing product for clarification by separation (centrifugation) process * confirming equipment status and condition * setting up and starting up the clarification by separation 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 * shutting down equipment in response to routine shutdown requirements * 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 clarification by separation (centrifugation) * links between clarification by separation and related processes * stages and changes which occur during clarification by separation (centrifugation) * effect of process stages on end product * quality characteristics and uses of clarified product * product preparation requirements and effect of variation on the process * main methods used in clarification by separation (centrifugation) * process specifications, procedures and operating parameters * centrifugal separator 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 clarification operations * workplace procedures relating to clarification operations and responsibility for: * reporting problems * environmental issues and controls. |

| 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 clarification by separation (centrifugation) operations * centrifugal separator equipment and materials required for operations * products for clarification by separation (centrifugation) process * cleaning materials, equipment and procedures * documentation or technology for recording and reporting information * specifications: * work instructions and workplace procedures for clarification by separation (centrifugation) 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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