Modification history

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

| FBPCEL2014 | Operate the rotary vacuum filtration process |
| --- | --- |
| Application | This unit of competency describes the skills and knowledge required to prepare and operate a rotary vacuum filtration process to filter juice product or wine.The unit applies to individuals who work in cellar operations under general supervision, with limited autonomy and accountability for their own work. 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 |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare the rotary vacuum filtration 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 Confirm availability and prepare product and materials to meet filtration requirements1.4 Confirm services are available and ready for operation1.5 Check equipment to confirm readiness for use according to workplace procedures1.6 Set the process to meet filtration requirements and work instructions |
| 2. Operate and monitor the rotary vacuum filtration process | 2.1 Start up the rotary vacuum filtration process according to workplace procedures2.2 Monitor control points to confirm performance is maintained within specification2.3 Confirm 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 rotary vacuum filtration process | 3.1 Shut the process down following to workplace procedures3.2 Dismantle equipment safely and prepare for cleaning3.3 Collect, treat and dispose of or recycle waste generated by both the process and cleaning procedures3.4 Conduct work in accordance with workplace environmental guidelines 3.5 Record workplace information according to workplace procedures 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. |
| --- |
| Skill | Description |
| Reading | * Interpret textual information to identify key information in workplace procedures, and work and operator instructions
 |
| Writing | * Complete workplace records relating to rotary vacuum filtration process accurately
 |
| Numeracy | * Interpret symbols and numbers to calibrate rotary vacuum filtration equipment and set process parameters, and monitor control points
 |
| Oral communication  | * Ask questions to clarify work instructions and use accurate terminology to report issues
 |
| Navigate the world of work | * Recognise and follow workplace requirements associated with own role and area of responsibility
 |
| Interact with others | * Follow accepted workplace practices and protocols for communicating information
 |
| Get the work done | * Follow clearly defined instructions to identify and assemble resources and sequence tasks to perform rotary vacuum filtration operations
* Monitor processes and control points, identify routine problems related to rotary vacuum filtration activities and initiate standard 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
 |

|  |
| --- |
| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPCEL2014 Operate the rotary vacuum filtration process | FDFCEL2014A Operate the rotary vacuum filtration process | Updated to meet Standards for Training PackagesMinor changes to elements and performance criteria for clarityRemoval of prerequisites due to no longer required by industry | Equivalent unit |

|  |  |
| --- | --- |
| 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 FBPCEL2014 Operate the rotary vacuum filtration process |
| --- | --- |
| 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 rotary vacuum filtration process on at least two separate occasions, including:* accessing workplace information to identify filtration requirements
* selecting, fitting and using personal protective clothing and equipment
* confirming supply and preparing necessary product, materials and services
* preparing and confirming status of equipment before commencing rotary vacuum filtration process including checking the screen or cloth condition and receival vessels
* setting up and starting up the rotary vacuum filtration process
* monitoring rotary vacuum filtration process control points and equipment
* taking corrective action in response to out-of-specification results or non-compliance
* shutting down equipment in routine and emergency situations
* conducting work safely following work health and safety procedures.
 |

| 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:* purpose and principles of rotary vacuum filtration
* links between rotary vacuum filtration and related processes in cellar operations
* stages and changes which occur during rotary vacuum filtration
* use of filter media
* diatomite
* perlite
* cellulose
* polyethylene
* effect of process stages on end product
* quality characteristics and uses of rotary vacuum filtration product
* product and materials preparation requirements and effect of variation on the process
* main methods used in rotary vacuum filtration
* process specifications, procedures and operating parameters for rotary vacuum filtration operations
* filtration equipment and instrumentation components, purpose and operation
* basic operating principles of process control systems where relevant
* significance and method of monitoring control points within the filtration 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
* workplace procedures and responsibility for:
* reporting problems
* environmental issues and controls
* waste handling requirements.
 |

| Assessment Conditions |
| --- |
| 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 rotary vacuum filtration operations
* equipment and materials for rotary vacuum filtration process
* products for rotary vacuum filtration
* cleaning materials, equipment and procedures
* documentation or technology for recording and reporting information
* specifications:
* work instructions and workplace procedures for rotary vacuum filtration operations

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.education.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4 |