Modification history

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

| FBPCEL2007 | Prepare and monitor wine cultures |
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| Application | This unit of competency describes the skills and knowledge required to prepare and monitor yeast and bacterial cultures used in wine production and to inoculate product according to set specifications and may involve work in confined spaces. The unit applies to individuals who work 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 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) - Fermentation |

| 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 for inoculation | 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 and confirm propagation requirements1.4 Prepare yeast and bacteria cultures for use according to workplace procedures1.5 Confirm availability and prepare product and materials to meet specified propagation requirements1.6 Confirm services are available and ready for operation |
| 2. Prepare equipment for culture preparation | 2.1 Confirm cleaning and sterilising equipment is ready for use2.2 Select, clean and sterilise propagation equipment and transfer equipment according to workplace procedures |
| 3. Maintain and monitor the propagation process | 3.1 Conduct transfer operations to meet propagation requirements3.2 Conduct the culture propagation process using safe work practices3.3 Inoculate ferments following work instruction3.4 Monitor control points to confirm performance is maintained within specification3.5 Monitor equipment to confirm operating condition3.6 Identify, rectify and report out-of-specification product, process and equipment performance |
| 4. Complete propagation activities | 4.1 The propagation process is completed according to workplace procedures4.2 Dismantle equipment safely and prepare for cleaning4.3 Collect, treat and dispose of or recycle waste generated by both the process and cleaning procedures4.4 Conduct work according to workplace environmental guidelines4.5 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. |
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| Skill | Description |
| Reading | * Interpret textual information to identify key information in workplace procedures, work and operator instructions
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| Writing | * Complete workplace records relating to preparing wine cultures accurately
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| Numeracy | * Interpret symbols and numbers to calibrate equipment and set process parameters, and monitor control points
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| Oral communication  | * Ask questions to clarify work instructions and use accurate terminology to report issues
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| Navigate the world of work | * Recognise and follow workplace requirements associated with own role and area of responsibility
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| Interact with others | * Follow accepted workplace practices and protocols for communicating information
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| Get the work done | * Follow clearly defined instructions to identify and assemble resources and sequence tasks to prepare and monitor wine cultures
* Monitor processes and control points, identify routine problems related to preparing wine cultures 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
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPCEL2007 Prepare and monitor wine cultures | FDFCEL2007A Prepare and monitor wine cultures | Updated to meet Standards for Training PackagesMinor changes to elements and performance criteria for clarityRemoval of prerequisite due to 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 FBPCEL2007 Prepare and monitor wine cultures |
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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 propagation process on two separate occasions, including:* accessing workplace information to identify culture propagation requirements
* selecting, fitting and using personal protective clothing and equipment
* confirming supply of necessary product, materials and services
* checking and confirming readiness of equipment before operation
* checking and preparing product and any additions, including checking of quality of wine yeast and bacterial cultures before use
* starting inoculation process according to instructions
* monitoring inoculation process control points for performance against specifications
* taking appropriate corrective action for out-of-specification process and equipment performance
* shutting down equipment in routine and emergency situations
* preparing equipment for cleaning including draining and dismantling equipment, in preparation for 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 propagating wine yeast and bacterial cultures
* relationship of propagation to alcoholic and malolactic fermentation
* stages and changes which occur during culture propagation
* effect of process stages on end product
* quality characteristics and uses of wine yeast and bacterial cultures
* product and materials preparation requirements and effect of variation on the process
* main methods used in culturing yeast and bacteria for wine production
* basic features of fermentation reaction for yeast and bacterial cultures
* techniques that may be used to manipulate the propagation process and wine characteristics:
* temperature
* yeast variety or strain
* baumé
* additions
* pH
* oxygen
* process specifications, procedures and operating parameters for preparing wine cultures
* 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, specifically confined space entry
* workplace procedures 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 wine culture operations
* equipment and materials for wine culture process
* yeast and/or bacterial cultures and products and materials required for wine culture process
* cleaning materials, equipment and procedures
* documentation or technology for recording and reporting information
* specifications:
* work instructions and workplace procedures for wine culture 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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