Modification history

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

| FBPFST5024 | Implement and review the production of fermented dairy products and dairy desserts |
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| Application | This unit of competency describes the skills and knowledge required to implement, monitor and review the standards and procedures for manufacture of fermented dairy products and dairy desserts. This unit applies to individuals who are responsible for maintaining product safety, quality and efficiency in the dairy processing sector and exercise autonomy in undertaking complex work related to product design, quality assurance and production management. No occupational licensing or certification requirements apply to this unit at the time of publication. However, legislative and regulatory requirements for food processing exist so local requirements must be checked. All work must comply with Australian food safety standards and relevant codes of practice. |
| Prerequisite Unit | Nil  |
| Unit Sector | Food science and technology (FST) |

| 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. Monitor the production of fermented dairy products and dairy desserts to meet quality standards | 1.1 Select appropriate production system and implement preparation for operation1.2 Establish resource requirements for the preparation and manufacture of the products1.3 Implement a production schedule ensuring all resources and requirements are available and meet company requirements1.4 Interpret data requirements for food safety, quality and production standards1.5 Establish data collection points consistent with equipment capabilities and data requirements1.6 Implement procedures to deal with non-conformance in relation to process and the final product1.7 Set production system to operating specifications before and during production1.8 Monitor process controls for the manufacture of the products |
| 2. Diagnose, rectify and report problems arising from the preparation and manufacture of fermented milk products and dairy desserts | 2.1 Determine sensory evaluation and product testing protocols used to identify defects and non-compliant product2.2 Implement a system to identify defects in the preparation and manufacture of the products2.3 Implement a sampling plan to produce samples for analysis 2.4 Conduct sensory analysis of products2.6 Implement adjustments to processes and equipment in response to test results2.7 Report problems to designated person |
| 3. Review production processes for fermented milk products and dairy desserts | 3.1 Review the critical control points (CCPs) and critical limits for product safety3.2 Review operating procedures for food safety and quality3.3 Review safe work systems for processing of products3.4 Review the environmental impacts and energy efficiencies for processing the product |

| 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  | * Interprets food safety guidelines and regulations
* Interprets product quality and workplace procedures
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| Oral communication | * Uses industry standard terminology
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| Numeracy | * Maintains and analyses data resulting from testing of products
* Determines calibration procedures and schedule for test equipment
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| Get the work done | * Addresses problems as they arise
* Uses technology to access and analyse information, prepare reports, and to access and prepare relevant data
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPFST5024 Implement and review the production of fermented dairy products and dairy desserts | FDFFST5024A Implement and review the production of fermented dairy products and dairy desserts | Updated to meet Standards for Training Packages | 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 FBPFST5024 Implement and review the production of fermented dairy products and dairy desserts |
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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 effectively implemented and reviewed the manufacture of at least two fermented dairy products or dairy desserts, including:* selecting the formulation for each product
* implementing the production schedule and ensuring all resources and requirements are available and meet workplace requirements
* setting the production system to operating specifications before and during production
* identifying potential product defects and their causes
* implementing adjustments to process, or equipment, in response to system review
* carrying out product sampling and testing according to the CCP-based plan and operational procedures
* providing relevant information to work colleagues to facilitate understanding of, and compliance with, the Food Safety Standards and associated regulations.
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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:* types of fermented dairy products and dairy desserts
* statutory compositional requirements for the different types of fermented dairy and dairy desserts
* the role of major ingredients in fermented dairy milk products and dairy desserts
* domestic and export markets for fermented dairy products and dairy desserts
* processes used in the preparation and manufacture of fermented dairy products and dairy desserts
* sequence of processes used in the preparation and manufacture of fermented dairy products and dairy desserts
* the output of each of the processes used in the preparation and manufacture of fermented dairy products and dairy desserts
* the production systems used for the preparation and manufacture of each fermented dairy and dairy dessert product, and the preferred sequence of activity to prepare the system for operation
* the critical factors in the preparation and manufacture of fermented dairy products and dairy desserts
* the resource requirements for the preparation and manufacture of fermented dairy products
* principles of operation of equipment and accessories used in the preparation and manufacture of fermented dairy products and dairy desserts
* potential product defects and their causes which may arise in the preparation and manufacture of fermented dairy products and dairy desserts
* the fermentation process as applied to dairy products
* formulation of fermented dairy products
* the potential product defects in fermented dairy products and dairy desserts and their causes
* testing procedures for raw materials through to manufactured product
* sensory analysis techniques for fermented dairy products and dairy desserts
* chemical and physical hazards that may affect milk based products
* procedures for milk product storage, handling and preparation
* sanitation and hygiene procedures
* CCP principles and critical limits in a CCP program
* regulatory requirements associated with fermented dairy products and dairy desserts.
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| Assessment Conditions |
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| Assessment of skills must take place under the following conditions: * physical conditions:
* skills must be demonstrated in a workplace setting or an environment that accurately represents a real workplace
* resources, equipment and materials:
* production process and related equipment, manufacturers’ advice and operating procedures
* specifications:
* tests used to report relevant product/process information and recorded results.

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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