Modification history

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

| FBPFST5027 | Review standards and procedures for production of milk and related products using a membrane system |
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| Application | This unit of competency describes the skills and knowledge required to monitor and review standards and procedures for milk and related products that are manufactured using a membrane system. The individual is required to use knowledge of food science and processes to determine the required food safety quality and performance of food production equipment.  Design and communication of solutions to sometimes complex problems is also required. Depending on the workplace application, the individual is required to liaise with engineering and maintenance specialists.  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 food 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 manufacturing of milk and related products by a membrane system, to meet quality standards | 1.1 Select appropriate production systems and the sequence of activity to prepare the system for operation  1.2 Establish resource requirements for the preparations and production of milk and related products manufactured by a membrane system  1.3 Interpret or develop a production schedule to ensure all resources and requirements are available and meet company requirements  1.4 Set the production system to operating specifications before and during production  1.5 Document data requirements for food safety, quality and production standards  1.6 Establish data collection points consistent with equipment capabilities and data requirements  1.7 Apply or develop procedures to deal with non-conformance in relation to process and the final product  1.8 Monitor process controls for the production of the products |
| 2. Diagnose, rectify and report problems arising from manufacturing of milk and related products by a membrane system | 2.1 Determine and implement methods and systems to identify product defects in the preparation and production process  2.2 Identify and apply adjustments to processes and equipment  2.3 Report problems to designated person |
| 3. Review production processes | 3.1 Review the critical control points (CCPs) and critical limits for product safety  3.2 Develop and implement a sampling plan for products  3.3 Conduct and analyse sensory analysis of products  3.4 Undertake food tests  3.5 Review operating procedures for the food safety and quality of products  3.6 Review safe work systems for processing of products  3.7 Review the environmental impacts and energy efficiencies for processing |

| 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 | * Interprets food safety guidelines and regulations * Interprets product quality and workplace procedures |
| Writing | * Develops procedures for implementing and monitoring a product quality system * Documents review of a production system |
| Numeracy | * Maintains and analyses data resulting from testing of products * Determines calibration procedures and schedule for test equipment |
| Navigate the world of work | * Monitors adherence to legal and regulatory standards and responsibilities for self and others |
| Get the work done | * Monitors outcomes of decisions and identify key product quality systems concepts and principles that may be adaptable to future situations * Uses digital tools to monitor processes and access and organise complex data |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPFST5027 Review standards and procedures for production of milk and related products using a membrane system | FDFFST5027A Implement and review the production of milk and related products by the membrane system | Updated to meet Standards for Training Packages  Title changed | 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 FBPFST5027 Review standards and procedures for production of milk and related products using a membrane system |
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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 reviewed standards and procedures for the production of milk and milk related products using a membrane system, including:   * determining the appropriate production system and procedures for the preparation and production of one type of milk or milk product * estimating the resource requirements * diagnosing, rectified and/or reported problems arising from the preparation and production using a membrane system * implementing adjustments to process and equipment in response to system review * carrying out product sampling and testing according to the CCP-based plan and operational procedures * using technology to access information, prepare reports, and to access and prepare relevant data * using industry standard terminology. | |

| 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:   * different types of milk and related products manufactured by a membrane system * statutory compositional requirements for the different types of milk and related products manufactured by a membrane system * specific domestic and export market requirements for milk and related products manufactured by a membrane system * the purpose of each process, and the principles of operation of equipment and accessories, for the preparation and production of each milk and related product manufactured by a membrane system * production systems used by a membrane system * operation of equipment and accessories used in the preparation and manufacturing processes * output of each of the processes * critical factors in the preparation and production of milk and related products manufactured by a membrane system * potential problems and product defects arising from a membrane system of manufacture * formulation of milk and related products * role of major ingredients found in milk and related products * testing procedures for raw materials through to manufactured product * sensory analysis techniques * chemical and physical hazards which may affect milk and related products manufactured by a membrane system * procedures for milk product storage, handling and preparation * safe work procedures * sanitation and hygiene procedures * CCP principles and critical limits in a CCP program * identification of Critical Control Points (CCPs) and critical limits * water and energy use and recycling in processing * regulatory requirements associated with milk and related products manufactured by a membrane system * environmental impacts of a membrane system. |

| 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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