Modification history

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

| FBPFST4020 | Monitor manufacturing of market milk and related products |
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| Application | This unit of competency describes the skills and knowledge required to implement and monitor the manufacture of market milk and related products against production standards and procedures. The unit applies to individuals working in the food science and technology sector who are responsible for maintaining product safety, quality and efficiency in food production in the dairy processing sector.  Depending on the workplace application, the individual is also required to liaise with engineering and maintenance specialists.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. Receive fresh milk and blend using standard industry data | 1.1 Apply receival and testing procedures for milk from farms1.2 Provide a safe working environment for milk receival and testing1.3 Test received milk and record and store data1.4 Store received milk under correct conditions and adjust or blend based on test data |
| 2. Monitor the manufacture of market milk and related products to meet quality standards | 2.1 Determine the specifications for the end product2.2 Provide a safe working environment for the manufacture of product samples2.3 Identify resource requirements for the preparation and manufacture of market milk and related products2.4 Use a production schedule to ensure all resources and requirements are available and meet company requirements2.5 Address critical factors in the preparation and manufacture of market milk and related products2.6 Identify data requirements for food safety, quality and production standards2.7 Establish data collection points consistent with equipment capabilities and data requirements2.8 Develop procedures to deal with non-conformance in relation to process and the final product2.9 Monitor market milk and related product manufacture |
| 3. Review the preparation and manufacture of market milk and related products | 3.1 Utilise systems to identify potential product defects and their causes in the preparation and manufacture of market milk and related products3.2 Apply adjustments to processes and equipment3.3 Report problems to designated personnel |

| 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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| Numeracy | * Maintains and analyses data resulting from testing of products
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| Navigate the world of work | * Monitors adherence to legal and regulatory standards and responsibilities for self and others
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPFST4020 Monitor manufacturing of market milk and related products | FDFFST4020A Implement and review the processing of market milk and related products | Updated to meet Standards for Training PackagesTitle 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 FBPFST4020 Monitor manufacturing of market milk and related products |
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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 safely and effectively monitored the manufacturing of market milk and milk related products on a least one occasion, including:* testing milk received to ensure compliance with quality standards
* implementing process control procedures and data collection to process milk and related products
* diagnosing and reporting problems for manufacturing
* reviewing the production process to ensure compliance with food safety, quality and environmental requirements.
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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:* the statutory compositional requirements for the different types of market milk and related products
* domestic and export markets for market milk and related products
* production systems used for the preparation and manufacture of market milk and related products
* formulation of market milk and related products
* role of major ingredients found in market milk and related products
* HACCP principles and critical limits in a HACCP program
* the purpose of each process, and processing sequence, used in the preparation and manufacture of market milk and related products
* principles of operation of equipment and accessories used in the preparation and manufacture of market milk and related products are determined
* output of each of the processes used in the preparation and manufacture of market milk and related products are identified
* production system requirements for the preparation and manufacture of each market milk and related products
* the resource requirements for the preparation and manufacture of market milk and related products
* chemical and physical hazards that affect milk
* procedures for milk storage, handling and preparation.
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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 milk processing workplace
* resources, equipment and materials:
* production process and related equipment, manufacturers’ advice and operating procedures
* methods and related software systems for collecting data and calculating yields, efficiencies and material variances appropriate to production environment

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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