Modification history

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| Release | Comments |
| Release 1 | This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 6.0. |

| FBPCON3XX6 | Operate and monitor a granulation and compression process |
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| Application | This unit of competency describes the skills and knowledge required to set up, operate, adjust and shut down a granulation and compression process.This unit applies to individuals who work as production workers and are responsible for the operation and monitoring of granulation and compression equipment in a confectionery production environment.All work must be carried out to comply with workplace procedures, in accordance with state/territory health and safety, and food safety regulations, legislation and standards that apply to the workplace.No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Confectionery (CON) |

| 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 the granulation equipment and process for operation | 1.1 Confirm materials are available for product specification1.2 Identify and confirm cleaning and maintenance requirements1.3 Identify safety requirements and wear appropriate personal protective equipment ensuring correct fit1.4 Identify food safety requirements for the task and product1.5 Set the granulation process to production specifications according to equipment operating instructions1.6 Check and adjust granulation equipment performance according to operating parameters1.7 Carry out pre-start checks according to operating procedures |
| 2. Prepare the compression process for operation | 2.1 Set the compression process to production specifications2.2 Check and adjust compression equipment performance according to operating parameters2.3 Carry out pre-start checks according to operating procedures |
| 3. Operate and monitor equipment | 3.1 Start and operate the process safely according to operating instructions and safety procedures3.2 Combine ingredients in specified sequence according to recipe and procedures3.3 Take samples to confirm granules produced are of the required particle size, according to product specifications3.4 Ensure product is compressed to meet product specification3.5 Monitor equipment to identify variation in operating conditions3.6 Adjust equipment operations to meet product specification3.7 Identify, rectify or report out-of-specification product or process outcomes according to workplace procedures3.8 Maintain the work area according to workplace procedures3.9 Maintain workplace records according to workplace procedures |
| 4. Shut down the compression process | 4.1 Identify the appropriate shutdown procedure according to operating instructions4.2 Shut down the process safely according to shutdown procedures4.3 Identify and report maintenance requirements according to workplace procedures |

| 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 information in recipes, equipment operational instructions and workplace procedures
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| Writing | * Accurately enter operational data into production equipment
* Complete processing records using digital and/or paper-based formats
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| Numeracy | * Read and interpret equipment gauges and scales
* Apply basic calculations to quantities in recipes for production volume and equipment
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPCON3XX6 Operate and monitor a granulation and compression process | FBPCON2006 Operate a granulation and compression process | Unit code and title updated to better match complexity of taskMinor changes to Performance Criteria for clarityFoundation skills refinedPerformance Evidence clarifiedMinor changes to Knowledge Evidence and Assessment Conditions | Equivalent  |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4 |

| TITLE | Assessment requirements for FBPCON3XX6 Operate and monitor a granulation and compression process |
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| Performance Evidence |
| An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit. There must be evidence that the individual has operated a granulation and compression process to produce at least one batch of confectionary to meet product specifications, including:* applying food safety procedures to work practices
* following safe work procedures
* taking corrective action in response to typical faults and inconsistencies.
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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 basic principles of the granulation and compression process
* basic operating principles of equipment, including main equipment components, status and purpose of guards, equipment operating capacities and applications, and the purpose and location of sensors and related feedback instrumentation
* services required and action to take if services are not available
* the flow of the granulation and compression process and the effect of outputs on downstream processes
* quality requirements of ingredients for granulating and effect of variation on the granulation process
* quality requirements of granulated mass including density and the relationship to weight and breakages
* operating requirements of both granulation and compression, related parameters and corrective action required where operation is outside specified operating parameters
* typical equipment faults and related causes, including signs and symptoms of faulty equipment and early warning signs of potential problems
* methods used to monitor the granulation and compression process, including inspecting, measuring and testing as required by the process
* good manufacturing practices (GMP) relevant to work task
* inspection or test points (control points) in the process and the related procedures and recording requirements
* contamination/food safety risks associated with the granulation and compression process and related control measures
* health and safety hazards and controls
* requirements of different shutdowns as appropriate to the granulation and compression process and workplace production requirements, including emergency and routine shutdowns and procedures to follow in the event of a power outage
* isolation, lock out and tag out procedures and responsibilities
* procedures and responsibility for reporting production and performance information
* environmental issues and controls relevant to the granulation and compression process, including waste/rework collection and handling procedures related to the process
* basic operating principles of process control including the relationship between control panels and systems and the physical equipment
* cleaning and sanitation procedures for the granulation and compression process
* procedures to record traceability of product.
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| Assessment Conditions |
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| Assessment of skills in this unit of competency must take place under the following conditions:* physical conditions:
* a food processing workplace or an environment that accurately represents workplace conditions
* resources, equipment and materials:
* personal protective equipment
* granulation and compression equipment
* ingredients used in the preparation of granulation and compression confectionary products as required
* sampling and testing procedures and equipment
* cleaning materials, equipment and procedures
* specifications:
* granulation and compression work procedures, including advice on safe work practices, food safety, quality and environmental requirements
* information on granulation and compression equipment capacity and operating parameters
* recipe/batch specifications, control points and processing parameters
* documentation and recording requirements and procedures.

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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