Modification history

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| Release | Comments |
| Release 1 | This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 1.0. |

| FBPCON2009 | Operate a starch moulding process |
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| Application | This unit of competency describes the skills and knowledge required to set up, operate, adjust and shut down sugar moulded products using a starch moulding process.  This unit applies to individuals who work under general supervision as production workers and are responsible for the operation and monitoring of starch moulding equipment and processes in a confectionery production environment.  All 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.  No occupational 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 starch moulding equipment and process for operation | 1.1 Confirm materials are available according to workplace procedure  1.2 Condition starch for moulding according to production specifications  1.3 Identify and confirm cleaning and maintenance requirements  1.4 Identify safety requirements and wear appropriate personal protective equipment and ensure correct fit  1.5 Prepare starch mould to meet production requirements  1.6 Enter processing or operating parameters according to equipment operating instructions  1.7 Transfer ingredients or mix to moulding equipment  1.8 Check and adjust equipment performance according to operating parameters  1.9 Carry out pre-start checks according to operating procedures |
| 2. Operate and monitor the starch moulding and removal process | 2.1 Start and operate the process safely according to operating instructions and safety procedures  2.2 Monitor equipment to identify variation in operating conditions  2.3 Identify variation in equipment operation and report maintenance requirements according to workplace procedures  2.4 Confirm that specifications are met at each stage  2.5 Identify, rectify or report out-of-specification product or process outcomes according to workplace procedures  2.6 Maintain the work area according to workplace procedures  2.7 Maintain workplace records according to workplace procedures |
| 3. Shut down the starch moulding process | 3.1 Identify the appropriate shutdown procedure according to operating instructions  3.2 Shut down the process safely according to shutdown procedures  3.3 Identify and report maintenance requirements according to workplace procedures |

| 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 and comprehends information contained in starch moulding recipes, equipment operational instructions and workplace procedures |
| Writing | * Enters operational data into starch moulding production equipment accurately |
| Numeracy | * Locates, recognises and applies basic calculations for numerical information found in starch moulding equipment |
| Navigate the world of work | * Follows clear instructions within defined level of responsibility * Recognises organisational expectations and follows explicit protocols and procedures, seeking clarification when required |
| Interact with others | * Follows instructions and procedures regarding what and how to communicate when reporting on starch moulding production issues |
| Get the work done | * Follows clearly defined instructions and sequencing, and monitors own progress for starch moulding production and seeks assistance when necessary * Makes low-impact decisions around immediate clearly defined production tasks |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPCON2009 Operate a starch moulding process | FDFCON2009A Operate a starch moulding process | Updated to meet Standards for Training Packages  Minor changes to Performance Criteria for clarity | 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 FBPCON2009 Operate a starch moulding 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 at least one starch moulding process, including:   * checking the availability of materials * selecting, fitting and using appropriate personal protective equipment * conducting pre-start checks on machinery * starting, operating, monitoring and adjusting process equipment to achieve required quality outcomes * taking corrective action in response to typical faults and inconsistencies * completing workplace records * shutting down equipment.   Throughout the process, individuals must:   * apply food safety procedures to work practices * follow work health and safety procedures. | |

| 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 starch moulding process, including an understanding of each stage: * starch mould preparation * product preparation and conditioning * product depositing * starch use and recovery cycle * 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 starch moulding and depositing process and the effect of outputs on downstream processes * quality requirements of starch moulds and materials for depositing and effect of variation on starch moulding process performance and outputs, including the moisture absorption characteristics of starch and impact on the process * quality characteristics required of process outputs * operating requirements and 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 starch moulding process, including inspecting, measuring and testing as required by the process * inspection or test points (control points) in the process and the related procedures and recording requirements * contamination and food safety risks associated with the starch moulding process and related control measures * common causes of variation and corrective action required * work health and safety hazards and controls * requirements of different shutdowns as appropriate to the starch moulding 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 starch moulding process, including waste and 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 starch moulding equipment. |

| 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 * starch moulding process and related equipment and services * ingredients used in the preparation of starch moulding process * sampling schedules and test procedures and equipment * cleaning materials, equipment and procedures * specifications: * work procedures, including advice on safe work practices, food safety, quality and environmental requirements * information on starch moulding equipment capacity and operating parameters * recipe/batch instructions * 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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