



Australian Government

FBPOPR2031 Operate a coating application process

Release: 1

FBPOPR2031 Operate a coating application process

Modification History

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

Application

This unit of competency describes the skills and knowledge required to set up, operate, adjust and shut down processes to dust and apply coatings to product.

This unit applies to individuals who work under general supervision and exercise limited autonomy in a food processing production workplace. This unit typically applies to the production worker responsible for applying basic operating principles to the operation and monitoring of a coating process and associated equipment.

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.

Pre-requisite Unit

Nil

Unit Sector

Operational (OPR)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for work in processing area	1.1 Confirm materials are available to meet operating requirements 1.2 Wear appropriate personal protective clothing and ensure correct fit according to work health and safety requirements 1.3 Identify and confirm workplace cleaning and maintenance

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	requirements and status
2. Prepare the coating process for operation	2.1 Enter processing and operating parameters to meet safety and production requirements 2.2 Check equipment performance and adjust according to operating requirements 2.3 Carry out pre-start checks according to operator instructions
3. Operate and monitor the coating process	3.1 Start, operate and monitor the process for variation in operating conditions according to work health and safety and operating procedures 3.2 Monitor the process to confirm that specifications are met 3.3 Identify, rectify and report out-of-specification equipment, product or process outcomes according to workplace requirements 3.4 Follow and apply workplace cleaning and environmental procedures
4. Shut down the coating process	4.1 Identify the appropriate shutdown procedure 4.2 Shut the process down safely according to operating procedures 4.3 Identify and report maintenance requirements 4.4 Maintain workplace records in appropriate format

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.

Skill	Description
Reading	- Interpret workplace and standard operating procedures relevant to job role - Interpret production requirements
Writing	Record operating, routine maintenance and shutdown information on paper-based and electronic media
Numeracy	Monitor and interpret production and process control indicators and data

Skill	Description
	Monitor supply and flow of materials to and from the process
Navigate the world of work	- Apply workplace procedures to own role and responsibilities - Identify skills, knowledge and experience required for performing own role in the workplace - Ask questions to clarify understanding or seek further information
Interact with others	- Communicate and report operational and safety information to relevant personnel - Use modes of communication suitable to purpose to confirm understanding when conducting operational start-up and shutdown procedures
Get the work done	- Access and interpret process control panels and system - Maintain a clean and hazard-free work area - Identify out-of-specification standards and maintain quality specifications - Confirm equipment status and condition - Interpret process and equipment information to monitor process and respond to abnormal performance and variations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPOPR2031 Operate a coating application process	FDFOP2031A Operate a coating application process	Updated to meet Standards for Training Packages	Equivalent unit

Links

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

Assessment Requirements for FBPOPR2031 Operate a coating application 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 coating application process on at least one occasion, including:

- accessing workplace information to identify processing requirements
- selecting, fitting and using personal protective clothing and/or equipment
- confirming supply of necessary materials and services
- preparing coating materials as required
- conducting pre-start checks, including:
 - inspecting equipment condition to identify any signs of wear
 - selecting appropriate settings and/or related parameters
 - cancelling isolation or lock-outs as required
 - confirming that equipment is clean and correctly configured for processing requirements
 - positioning sensors and controls correctly
 - ensuring any scheduled maintenance has been carried out
 - confirming that all safety guards are in place and operational
- starting, operating, monitoring and adjusting coating equipment to achieve required outcomes (this will depend on the nature of coating materials), including:
 - condition of coating materials, including checking grist/particle shape and size, and checking for dough balls or lumps in flour-based breaders
 - viscosity and temperature of batter-type breaders and glazes
 - condition of product to be coated
 - product orientation/indexing
 - conveyor positions and speeds
 - drum speed
 - compression roller settings (drum applicator)

- dip pond levels
- air blow off settings
- spread/evenness of coating
- monitoring supply and flow of materials to and from the coating process
- taking corrective action in response to out-of-specification results
- conducting product/batch changeovers
- reporting and/or recording corrective action as required
- locating emergency stop functions on equipment
- following isolation and lock-out/tag-out procedures as required to take process and related equipment off-line in preparation for cleaning and/or maintenance within level of responsibility
- preparing equipment for cleaning
- responding to and/or reporting equipment failure within level of responsibility
- completing workplace records as required
- maintaining work area to meet housekeeping standards
- preparing breaders and glazes according to workplace procedures
- using process control systems according to workplace procedures
- cleaning and sanitising equipment according to workplace procedures
- following relevant work health and safety procedures.

Knowledge Evidence

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 coating, including coating process, process design and operation to achieve the coating requirements, related requirements of product and coating condition and equipment settings
- basic operating principles of coating application equipment, including:
 - main equipment components
 - status and purpose of guards
 - equipment operating capacities and applications
 - the purpose and location of sensors and related feedback instrumentation
- quality characteristics to be achieved by the coating process
- the flow of the coating process and the effect of product output on downstream processes
- quality requirements of coating materials and product to be coated, and effect of variation on process performance
- operating requirements and parameters of coating application equipment 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
- techniques used to monitor the coating 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/food safety risks associated with the process and related control measures relevant to the coating application process
- common causes of variation and corrective action required
- work health and safety hazards and controls relevant to the coating application process
- requirements of different shutdowns as appropriate to the 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 coating process, including waste 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 coating application equipment.

Assessment Conditions

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
 - coating process and related equipment and services
 - coating materials and product
 - sampling schedules and test procedures and equipment
- specifications:
 - work procedures, including advice on safe work practices, food safety, quality and environmental requirements
 - information on equipment capacity and operating parameters
 - production schedule, batch/recipe instructions
 - documentation and recording requirements and procedures
 - cleaning procedures, materials and equipment.

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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