



Australian Government

FBPBP3001 Operate the bottle filling process

Release: 1

FBPBP3001 Operate the bottle filling process

Modification History

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

Application

This unit of competency describes the skills and knowledge required to set up, operate and shut down a range of semi-automated and automated bottling and packaging equipment involved in the bottle filling process in a bottling and packing environment.

This unit applies to individuals who take responsibility for applying basic operating principles for, and the operation and monitoring of, a bottle filling process and associated equipment.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety, and food safety regulations, legislation and standards that apply to the workplace.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Bottling and Packaging (BPG)

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 to operate bottle filling equipment	1.1 Interpret work instructions and identify potential health and safety in the workplace hazards and controls 1.2 Select, fit and use appropriate personal protective equipment 1.3 Ensure that product and materials are available to meet bottle

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 1.4 Prepare product and materials to meet bottle requirements 1.5 Ensure that services are available and ready for operation 1.6 Prepare bottle filling equipment and check to confirm readiness for use according to operating instructions 1.7 Set equipment to meet bottle requirements
2. Operate and monitor the bottle filling process	2.1 Start up bottle filling equipment according to operating instructions 2.2 Monitor control points to confirm performance is maintained within specification 2.3 Fill bottles according to specification 2.4 Monitor bottle filling equipment to confirm operating condition 2.5 Identify, rectify and report out-of-specification end product, process and equipment performance 2.6 Liaise with operators in other work areas to ensure ongoing bottling process runs efficiently and effectively
3. Shut down the bottle filling process	3.1 Shut down bottle filling equipment according to operating instructions 3.2 Prepare bottle filling equipment for cleaning according to workplace procedures 3.3 Collect, treat and dispose of or recycle waste generated by both the process and cleaning procedures according to workplace procedures 3.4 Conduct work according to workplace environmental guidelines 3.5 Record workplace information according to workplace requirements

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
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Skill	Description
Reading	Interpret instructions and specifications information to determine and apply requirements in the bottling process
Get the work done	Respond to predictable routine problems, faults and out of specification issues and implements standard or logical solutions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPBP3001 Operate the bottle filling process	FDFBP3001A Operate the bottle filling process	Updated to meet Standards for Training Packages Minor changes to Performance Criteria to clarify intent	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPBPG3001 Operate the bottle filling process

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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 set up, operated and shut down an automated or semi-automated bottle filling system on a minimum of one occasion, including:

- confirming equipment is ready for operation, including:
 - cleaning and sanitation processes are completed
 - filling tubes meet specification
 - doser is set up and is operational
 - bottle feeds are filled with correct screws and stars and accurately aligned
 - height of filler is adjusted to suit bottle height
 - lines and equipment are flushed with product to be bottled
- monitoring and adjusting process equipment to achieve required quality outcomes, ensuring:
 - compressed air pressure is at correct level
 - vacuum pressure is at correct level
 - product temperature
 - fill height and volume
- taking corrective action in response to typical faults and inconsistencies
- liaising with other work areas involved the packaging process
- completing workplace records as required
- applying safe work practices and identifying health and safety in the workplace hazards and controls.

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 principles of bottle filling equipment
- key features of bottle filling equipment and components
- links to related processes
- effect of process stages on end product
- quality characteristics and uses of end product
- effect of product and materials on process outcomes
- emergency and troubleshooting procedures
- process specification, procedures and operating parameters
- equipment and instrumentation components, purpose and operation
- basic operating principles of process control systems where relevant
- significance and methods of monitoring control points
- common causes of variation and corrective action required
- technological advances that include automation and use of robots
- health and safety in the workplace hazards and controls
- routine maintenance requirements
- lock-out and tag-out procedures
- procedures and responsibility for reporting problems
- shutdown and cleaning requirements associated with changeovers and types of shutdown
- recording requirements and procedures.

Assessment Conditions

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:
 - bottling equipment
 - resources, tools and consumables
 - personal protective clothing and equipment
 - products, consumables and materials for filling purposes
 - cleaning procedures, materials and equipment
 - documentation and recording requirements and procedures
- specifications:
 - specifications and schedules
 - equipment operating instructions, service records and corresponding information

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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