



Australian Government

FBPBPG3004 Operate the bottle sealing process

Release: 1

FBPBPG3004 Operate the bottle sealing 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 bottling and packaging equipment involved in the bottle sealing process in a bottling and packing environment.

The unit applies to individuals who are responsible for operating and monitoring a bottle sealing process and associated equipment. They work under broad direction and exercise autonomy and judgement where required.

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 sealing equipment	1.1 Interpret work instructions, including identifying 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 dry goods 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>
	sealing requirements 1.4 Ensure that services are available and ready for operation 1.5 Prepare bottle sealing equipment and check to confirm readiness for use 1.6 Set-up equipment to meet bottle sealing requirements
2. Operate and monitor the bottle sealing process	2.1 Start up bottle sealing equipment according to operating instructions 2.2 Monitor control points to confirm performance is maintained within equipment operation specification 2.3 Seal bottles according to requirements 2.4 Monitor bottle sealing equipment to confirm operating condition 2.5 Identify, rectify and report out-of-specification end product, process and equipment performance according to workplace procedures 2.6 Liaise with operators in other work areas to ensure ongoing bottling process runs efficiently and effectively
3. Shut down the bottle supply process	3.1 Shut down bottle sealing equipment according to operating instructions 3.2 Prepare bottle sealing equipment for cleaning according to workplace procedures
4. Conduct housekeeping activities	4.1 Carry out cleaning procedures 4.2 Collect, treat and dispose of or recycle waste generated by both the process and cleaning procedures 4.3 Record workplace information 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.

Skill	Description
-------	-------------

Skill	Description
Reading	Interpret messages in standard operating procedures
Navigate the world of work	- Recognise organisational expectations and follows explicit protocols and procedures - Seek clarification when required
Get the work done	Problem solve issues as they arise

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPBPG3004 Operate the bottle sealing process	FDFBP2004A Operate the bottle sealing process	Updated to meet Standards for Training Packages Minor changes to Performance Criteria to clarify intent Unit code updated to AQF3 to reflect complexity of competency	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 FBPBP3004 Operate the bottle sealing process

Modification History

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

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 all items of equipment on a bottle sealing process on a minimum of one occasion, including:

- confirming equipment is ready for operation, ensuring:
 - cleaning and sanitation processes are completed
 - magazine, hoppers, chutes and guides are operational
 - any adjacent coding equipment is set up and operational
 - line controls (conveyors) are operational
 - line lube is operational and being correctly applied
 - torque testers are correctly calibrated
 - equipment is set for correct bottle height
 - vacuum pump is operational
 - vacuum block and corker jaws are correctly lubricated
 - bottle feeds are filled with correct screws and stars and accurately aligned
- monitoring and adjusting process equipment to achieve required quality outcomes, ensuring:
 - compressed air pressure is at correct level
 - torque on Roll On Tamper Evident (ROTE) seals
 - cork depths as established by the workplace
 - effective seal on crown seals
 - correct vacuum is being applied to head space in bottle
 - wire muselet is consistently applied
 - appearance of sealing application to approved quality
 - quality materials are used in the sealing process
- 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 sealing equipment
- key features of bottle sealing equipment and components
- links to related processes
- stages and changes which occur during the process
- 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
- services required
- significance and methods of monitoring control points
- common causes of variation and corrective action required
- technological advances that include automation
- 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
- equipment operation and out-of-specification actions for:
 - compressed air pressure
 - torque on ROTE seals, Roll On Pilfer Proof, Lux
 - inappropriate cork depths
 - ineffective seal on crown seals
 - incorrect vacuum applied to head space in bottle
 - inconsistent application of wire muselet
 - poor appearance of sealing application
 - poor quality of dry goods used in the sealing process.

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 bottling and packaging workplace
- resources, equipment and materials:
 - bottle sealing equipment
 - bottle sealing resources and consumables
 - tools and equipment for adjusting and, maintaining equipment
 - personal protective equipment
- specifications:
 - work procedures and operator's manuals or instructions.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guides are found in VETNet: -

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