Modification history

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| Release | Comments |
| Release 2 | This version released with FBP Food, Beverage and Pharmaceuticals Training Package version 2.0. |

| FBPBPG2004 | Operate the bottle sealing process |
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| 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 work under general supervision in bottling and packaging and are responsible for operating and monitoring a bottle sealing process and associated equipment.No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.NOTE: The terms 'occupational health and safety' (OHS) and 'work health and safety' (WHS) generally have the same meaning in the workplace. In jurisdictions where the national model WHS legislation has not been implemented, RTOs must contextualise the unit of competency by referring to current OHS legislative requirements. |
| Prerequisite Unit | Nil |
| Unit Sector | Bottling and Packaging (BPG) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare to operate bottle sealing equipment | 1.1 Confirm work instructions, including identifying potential WHS hazards and controls with supervisor1.2 Select and use appropriate personal protective equipment (PPE)1.3 Ensure that product and dry goods are available to meet bottle sealing requirements1.4 Ensure that services are available and ready for operation1.5 Prepare bottle sealing equipment and check to confirm readiness for use1.6 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 instructions2.2 Monitor control points to confirm performance is maintained within equipment operation specification2.3 Seal bottles according to requirements2.4 Monitor bottle sealing equipment to confirm operating condition2.5 Identify, rectify and report out-of-specification end product, process and equipment performance according to workplace procedures2.6 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 instructions3.2 Prepare bottle sealing equipment for cleaning according to workplace procedures |
| 4. Conduct housekeeping activities | 4.1 Carry out cleaning procedures4.2 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 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 | * Interprets key messages in standard operating procedures
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| Navigate the world of work | * Follows clear instructions within defined level of responsibility
* Recognises organisational expectations and follows explicit protocols and procedures
* Seeks clarification when required
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| Get the work done | * Responds to routine problems using step by step instruction and procedures
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPBPG2004 Operate the bottle sealing process | FDFBP2004A Operate the bottle sealing process | Updated to meet Standards for Training PackagesMinor changes to Performance Criteria to clarify intent | 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 FBPBPG2004 Operate the bottle sealing 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 all items of equipment on a bottle sealing process on a minimum of one occasion, including:* confirming equipment is ready for operation, including:
* 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 identify WHS hazards and controls.
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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 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
* WHS hazards and controls
* routine maintenance requirements
* lock-out and tag-out procedures
* procedures and responsibility for reporting problems
* environmental issues and controls
* shutdown sequence
* shutdown and cleaning requirements associated with changeovers and types of shutdown
* collection, treatment and handling requirement for waste generated by process and cleaning operation
* recording requirements and procedures
* equipment operation and out-of-specification actions for:
* compressed air pressure
* torque on Roll On Tamper Evident (ROTE) seals, Roll On Pilfer Proof (ROPP), 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
* records required and procedures for reporting and/or recording corrective action
* equipment cleaning, removal of waste and sanitation
* maintaining work area to meet housekeeping standards.
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| Assessment Conditions |
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| 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:
* bottle sealing equipment
* bottle sealing resources and consumables
* tools and equipment for adjusting and, maintaining equipment
* personal protective equipment (PPE)
* specifications:
* work procedures and operators manuals or instructions.

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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