



Australian Government

Assessment Requirements for FBPPHM3009 Operate an aseptic form, fill and seal process

Release: 2

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Modification History

Release	Comments
Release 2	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 5.0.
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 operated at least one aseptic form, fill and seal process, including:

- accessed workplace information to confirm production requirements for the aseptic form, fill and seal process
- confirmed supply of necessary materials, packaging components and consumables for the aseptic form, fill and seal process
- selected, fitted and used cleanroom garments and personal protective equipment including gowning and de-gowning
- maintained the sterile quality of the gown after performance of gowning procedures and aseptic process by microbiological surface sampling of several locations on gown
- followed required work area entry and exit procedures and moved around the work area in a manner that does not generate additional contaminants
- conducted pre-start checks required for the safe operation of the aseptic form, fill and seal process, including:
 - carried out required area or line clearances
 - inspected equipment condition to identify signs of wear
 - checked all safety equipment in place and operational
 - confirmed equipment clean or sanitised
 - confirmed equipment correctly configured for processing requirements
- started, operated, monitored and adjusted aseptic form, fill and seal process equipment to achieve required outcomes, including:
 - container formation and appearance
 - supply and flow of materials to and from process and pressure

- flow rates
- weights and volumes
- fill levels
- temperature, including materials and sealing temperatures
- supply of packaging components and consumables
- container closure integrity
- conducted in-process control checks to confirm the process remains within limits
- inspected units for defects
- taken corrective action in response to a non conformance
- maintained consistent aseptic techniques
- followed end-of-batch procedures, including:
 - line clearance and cleaning
 - loss of sterility
 - filler integrity testing
 - yield calculation
 - materials reconciliation
 - environmental monitoring
 - product labelling
 - actions required if yield or reconciliation is not within prescribed limits
- safely shut down the process according to workplace procedures
- cleaned and maintained work area to meet workplace cleaning standards and environmental requirements
- completed records according to workplace 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:

- stages of the aseptic form, fill and seal process, including:
 - the purpose, methods and outcomes of each stage
 - control points
 - principles of filling and sealing, including properties of packaging materials used
 - the form process
 - principles of heat sterilisation
 - the effect of heat sterilisation on microbiological characteristics of product and packaging materials, and a filling process
 - flow of an aseptic form, fill and seal process and the effect of outputs on downstream processes
- quality characteristics to be achieved by the aseptic form, fill and seal process, including:
 - quality requirements of packaging components and consumables
 - sterilisation requirements and procedures

- fill volume by levels and weights
- internal and external leakers
- appearance, including; legibility of embossing, burnt polymer and streaking
- requirements of seal formation and integrity
- importance of maintaining sterile product
- integrity testing procedures
- aseptic container preparation and forming, filling and sealing requirements
- basic operating principles, requirements and parameters of aseptic form, filling and sealing equipment, including:
 - main components, operating capacities and applications
 - typical equipment faults and related causes, including signs and symptoms of faulty equipment and early warning signs of potential problems
 - status and purpose of guards
 - the purpose and location of sensors and related feedback instrumentation
 - corrective actions taken where operation is outside specified operating parameters
- common causes of out-of-specification product or process and corrective actions required, including the effect of variations in both product and packaging components or consumables on form, filling and sealing performance
- functions and limitations of cleanroom garments and personal protective clothing and equipment, including:
 - sterile gowns
 - surgical or elastic gloves
 - face masks
 - hair nets or sterile hoods
 - beard/moustache covers
 - protective goggles or glasses
 - sterile disposable overshoes, cleanroom boots and shoe covers
- gowning and de-gowning techniques
- cleanroom behaviour and hygiene
- aseptic technique
- microbiology applicable to aseptic form, fill and seal process
- pre-start checks requirements, including:
 - carrying out required area or line clearances
 - inspecting equipment condition to identify signs of wear
 - confirming all safety equipment are in place and operational
 - confirming that equipment is clean or sanitised
 - confirming that equipment is correctly configured for processing requirements
- methods used to monitor an aseptic form, fill and seal process, including:
 - inspecting
 - measuring
 - testing

- product, packaging and process changeover procedures and responsibilities
- end-of-batch procedures, including:
 - line clearance and cleaning
 - loss of sterility
 - filler integrity testing
 - calculating yield
 - materials reconciliation
 - environmental monitoring
 - product labelling
 - actions required if yield or reconciliation is not within prescribed limits
- requirements of different shutdowns, including:
 - emergency and routine shutdowns
 - procedures to follow in the event of a power outage
- line clearance procedures, including cleaning and sanitation procedures
- isolation, lock out and tag out procedures and responsibilities
- operating principles of process control, including the relationship between control panels, systems and physical equipment
- Good Manufacturing Practice (GMP) requirements associated with aseptic form, fill and seal process and related control measures
- environmental issues and controls relevant to the aseptic form, fill and seal process, including:
 - particle count specification
 - waste collection and handling procedures
- requirements for completion of workplace documentation.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a pharmaceutical workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - cleanroom garments and personal protective equipment
 - aseptic form, fill and seal process equipment
 - materials, packaging components and consumables for an aseptic form, fill and seal process
 - microbiological surface sampling tools (touch plates)
 - microbiological growth medium for process simulation (media fill)
 - environmental monitoring equipment
 - cleaning materials and equipment associated with aseptic form, fill and seal process

- record keeping system
- specifications:
 - product and intermediate product specifications, control points and processing parameters
 - specifications, control points and processing parameters
 - workplace documentation relating to aseptic fill and seal process and procedures that comply with GMP requirements information on equipment capacity and operating parameters
 - microbiological surface sampling limits for gown locations
 - cleaning and environmental monitoring procedures associated with aseptic form, fill and seal process.

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>