

Assessment Requirements for FBPOPR2082 Operate a mixing or blending process

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 6.0.

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 a mixing or blending process to produce at least one blended product to meet specifications, including:

- 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
- adding/loading materials in correct quantities and sequence, including monitoring automatic ingredient addition and/or manual addition
- applying relevant product safety practices
- · following safe work procedures
- addressing routine processing issues.

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 preparing mixes and blends, including the characteristics
and basic function of ingredients and additives used, method and sequence of ingredient
addition required to achieve required blend characteristics and, where relevant, the
purpose of conditioning, maturation or holding stages required prior to further processing
of the mix

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- · specific gravity and bulk density as appropriate for ingredients used
- basic operating principles of mixing/blending 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
 - awareness of calibration schedules for scales and related weighing/measuring equipment
- services required, and action to take if services are not available
- the flow of the mixing process and the effect of mix preparation on downstream processes
- ingredient-handling requirements and shelf-life or coding
- quality characteristics required of ingredients and additives and their effect on mixing process performance, including methods used to condition or prepare ingredients prior to addition
- methods used to monitor the blending or mixing process, including inspecting, measuring and testing, by the process
- inspection or test points (control points) in the process and the related procedures and recording requirements, including:
 - flow rates
 - ingredient/additive addition sequence
 - times/temperatures and agitator speeds
 - required characteristics of blend, including viscosity, appearance and temperature
- required attributes of the mixed or blended output, including chemical, texture and flavour profiles as required
- the effect of the mixing or blending parameters, including temperature and length of mix time on mixing outcome
- contamination/cross-contamination and relevant product safety risks associated with the
 process, and related control measures, including product compatibility and
 cross-contamination risks and associated cleaning requirements, as well as common
 allergens used in mixes prepared
- operating requirements and parameters, and corrective action required when 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
- · common causes of variation, and corrective action required
- · health and safety hazards and controls relevant to the mixing and blending process
- requirements of different shutdowns as appropriate to the blending or mixing 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 relevant to the mixing and blending process
- procedures and responsibility for reporting production and performance information

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- environmental issues and controls relevant to the mixing or blending process, including waste or rework collection and handling procedures related to the process
- basic operating principles of process control, where relevant, including the relationship between control panels and systems and the physical equipment
- characteristics of solutions, suspensions and emulsions for the mixing and blending process
- cleaning and sanitisation procedures for mixing or blending equipment
- recording procedures to ensure traceability of product.

Assessment Conditions

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

- physical conditions:
 - a workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - mixing/blending process equipment and related services
 - personal protective clothing
 - ingredients and additives required for the mixing/blending process
 - · cleaning materials and equipment
- specifications:
 - work procedures, including advice on safe work practices, product safety, quality and environmental requirements, stock flow systems, production schedules, batch/recipe instructions
 - information on equipment capacity and operating parameters
 - production schedule/batch/recipe specifications, control points and processing parameters.

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

Links

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

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