



Australian Government

**Assessment Requirements for
FBPOPR2030 Operate a brewery
fermentation 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 1.0

Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit.

There must be evidence that the individual has set up, operated, adjusted and shut down a brewery fermentation process on at least one occasion, including:

- accessing workplace information to identify process requirements
- confirming availability of materials and services
- 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
 - 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
- operating vessel transfer equipment
- handling dangerous goods according to procedures
- monitoring control points within the fermentation process
- undertaking corrective action required in the event of variation to specifications and operating parameters
- sampling to ensure yeast effectiveness and freedom from bacterial contamination
- identifying work health and safety hazards and implementing appropriate action
- shutting down the process and equipment, and implementing cleaning requirements associated with changeovers
- handling waste according to requirements and procedures
- cleaning and sanitising equipment according to workplace procedures
- selecting, fitting and using personal protective clothing and equipment
- maintaining work area to meet housekeeping standards.

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, principles and requirements of the fermentation process
- relationship between the fermentation process, the wort production process and the maturation process
- stages and changes that occur during fermentation
- fermentation process specifications, procedures and operating parameters
- significance of control points within the fermentation process
- fermentation equipment and instrumentation components, purpose and operation
- vessel-cooling systems for the brewery fermentation process
- common causes of variation and corrective action required
- work health and safety hazards and controls, including the limitations of protective clothing and equipment relevant to the work process
- procedures and responsibilities for reporting problems during the fermentation process
- environmental issues and controls, including waste handling requirements and procedures for the fermentation process
- shutdown and cleaning requirements associated with changeovers, and types of shutdowns
- recording requirements and procedures for a brewery fermentation process
- cleaning and sanitation procedures for brewery fermentation equipment
- sampling and testing procedures for fermentation.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective clothing and equipment
 - relevant hazard control equipment
 - manual handling equipment
 - fermentation process equipment
 - fermentation raw material and other ingredients
- specifications:
 - standard operating procedures and related advice on specific safe work practices, company policies, and codes of practice relating to work health and safety
 - advice on relevant legislation and codes of practice relating to work health and safety
 - information systems and procedures.

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>