



Australian Government

Assessment Requirements for FBPSUG2014 Operate a low grade fugal station

Release: 1

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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 operated a low grade fugal station in line with workplace contexts and demonstrated each of the following points at least once:

- confirmed availability of equipment, services and massecuite to meet production requirements
- selected, fitted and used personal protective equipment (PPE)
- conducted pre-start checks and followed start-up procedure
- started up and operated in both automatic and manual modes
- safely operated, monitored and adjusted the process and equipment from the re-heater to the magma pump and molasses cooler within required parameters
- controlled station throughput to meet factory flows
- performed an operational shutdown according to workplace procedure
- conducted shift handover according to workplace procedure
- taken corrective action in response to typical operating faults and product and process non-conformance.

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 low grade fugal operation, including C molasses cooling and storage, and operating efficiencies for low grade fugals
- the effect of C molasses dilution and temperature on C massecuite viscosity
- the effect of C massecuite conditioning on low grade fugal performance
- factors that affect throughput and recovery, including the relationship between crystalliser throughput, magma stock and remelt rate
- equipment purpose and operating principles of low grade fugal equipment

- services used for low grade fugal process
- significance and method of monitoring control points within the process
- key health and safety requirements when operating a low grade fugal process:
 - hazards and associated control measures
 - correct use of PPE
 - procedures for responding to emergency situations
 - lock-out and tag-out procedures
- requirements of operational and long-term shutdown conditions
- procedures and responsibility for reporting problems relating to the low grade fugal process
- environmental and waste handling requirements and procedures relevant to the low grade fugal process
- recording requirements and procedures relevant to low grade fugal process.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a sugar milling workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - PPE
 - low grade fugal station equipment
 - materials, including massecuite
 - maintenance tools
 - workplace information recording system
- specifications:
 - workplace and operating procedures and related advice on equipment operation, including advice on safe work practices and environmental requirements
 - product and process specifications and operating parameters
 - cleaning procedures, sampling schedule 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 Volume Implementation Guides are found in VETNet: -

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