



Australian Government

Assessment Requirements for FBPSUG2009

Operate an extraction 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 an extraction station in line with workplace contexts and demonstrated each of the following points at least once:

- confirmed availability of equipment, services and cane to meet production requirements
- selected, fitted and used personal protective equipment (PPE)
- safely started up and monitored supply and flow of cane to the process, and bagasse and juice from the process
- monitored the process and equipment operation
- took corrective action in response to typical operating faults and product and process non-conformance
- reported and recorded process and production data
- conducted shift changeover procedure
- shut down equipment in both automatic and manual modes and reported maintenance requirements.

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 principles of extraction, including shredder operation, mills and diffusers as required in the workplace
- the flow of this process and the relationship between extraction, boilers and evaporation
- the effect of cane quality, added water and mill operation on extraction
- consequences of poor lubrication
- the role of cooling water for equipment operation
- quality characteristics of bagasse and their effect on boiler operation
- equipment purpose and basic operating principles of extraction equipment

- significance and method of monitoring control points within the process
- common causes of variation, and corrective action required
- key health and safety requirements when operating an extraction station in the workplace:
 - hazards and associated control measures
 - manual handling procedures
 - correct use of PPE
 - procedures for responding to emergency situations
 - lock-out and tag-out procedures
- requirements of operational and long-term shutdown conditions to ensure the equipment is left in a safe state for the period of the shutdown and to minimise any delays in future start-up
- procedures and responsibility for reporting problems associated with the extraction process
- environmental and waste handling requirements and procedures for the extraction 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
 - extraction station equipment
 - materials and services required for operating an extraction station
 - workplace information recording system
 - maintenance tools
- 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
 - 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>