



Australian Government

FBPSUG3005 Operate a sugar system

Release: 1

FBPSUG3005 Operate a sugar system

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to prepare and operate an integrated group of sugar milling sub-systems or unit operations in the sugar milling industry.

The unit applies to individuals who work in one or more connected unit operations, including preparation, crushing and power generation.

All work must be carried out to comply with workplace procedures according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sugar milling (SUG)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare the system for operation	1.1 Confirm supply of materials to meet production requirements 1.2 Prepare work area for operation according to workplace procedures 1.3 Confirm services as available and ready for operation 1.4 Check equipment to confirm readiness for use according to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	workplace procedures and manufacturer's guidelines 1.5 Select, fit and use personal protective equipment according to workplace safety procedures
2. Operate and monitor the system	2.1 Start the system according to workplace procedures 2.2 Confirm process performance is maintained within specification 2.3 Operate system to optimise performance for the current factory conditions within limits of manufacturer's specifications 2.4 Monitor equipment to confirm operating condition 2.5 Ensure system outputs meet specification
3. Hand over the system	3.1 Maintain workplace records according to workplace procedures 3.2 Carry out handover according to workplace procedures 3.3 Ensure operators are aware of system and related equipment status at completion of handover
4. Shut down the system	4.1 Identify the appropriate shutdown procedure for operational and long-term shutdown conditions 4.2 Collect, treat and dispose of or recycle waste generated by both the process and cleaning procedures 4.3 Safely shut down the system according to workplace procedures and manufacturer's recommendations 4.4 Prepare the system for storage in shutdown mode 4.5 Identify and address operational maintenance requirements according to workplace procedures
5. Contribute to continuous improvement of the system	5.1 Identify and investigate opportunities for improvement 5.2 Develop and implement proposals for improvements within company planning arrangements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Writing	- Record information in required format - Communicate proposed improvements in clearly constructed text
Numeracy	Monitor and interpret system control indicators and data
Navigate the world of work	- Apply workplace procedures relevant to own role - Understand own role and associated responsibilities
Interact with others	Apply workplace communication practices to report issues or provide information
Get the work done	- Access and interpret sugar system control panels and system indicators - Make decisions to correct abnormal plant performance within level of responsibility - Identify and propose sugar system process, product or service improvements within scope of own role

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG3005 Operate a sugar system	FDFSUG309A Operate a sugar system	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

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

Assessment Requirements for FBPSUG3005 Operate a sugar system

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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 sugar system in line with workplace contexts and demonstrated each of the following points at least once:

- selected, fitted and used personal protective equipment (PPE)
- conducted pre-start checks, prepared the work area and followed start-up procedure
- safely operated, monitored and adjusted sugar system to maintain process within specified parameters
- reported and/or recorded process and production and corrective action
- conducted shift handover procedure
- shut down the system according to procedures
- planned maintenance and cleaning procedures to minimise disruption
- identified and developed proposals for system improvements.

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:

- equipment purpose and operation, including sugar system process controls
- relevant procedures, specifications and operating parameters for the system and individual units
- process improvement procedures and related consultative arrangements
- purpose and principles of the system, including process optimisation
- key health and safety requirements for operating a sugar system:
 - hazards, risks, controls and methods for monitoring processes within the system
 - correct use of PPE
 - safe work procedures
- operational maintenance and cleaning requirements of equipment in system

- environmental management requirements for operating a sugar system
- recording requirements and procedures for operating a sugar system.

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
 - sugar system equipment, processes and related materials and services
 - workplace information recording systems
- specifications:
 - operating procedures and related information on safe work practices and environmental requirements
 - product and process specifications and operating parameters.

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

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