



Australian Government

FBPSUG2021 Operate an ash separation system

Release: 1

FBPSUG2021 Operate an ash separation 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 operate a system to separate ash solids from boiler sluice water by use of clarifiers and filters.

The unit applies to individuals who work under supervision in the sugar milling industry.

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 ash separation system for operation	1.1 Confirm materials are available to meet requirements 1.2 Confirm services are available and ready for operation 1.3 Select, fit and use personal protective equipment according to workplace safety procedures 1.4 Check equipment in readiness for use according to operating procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Set the ash separation process to meet production requirements 1.6 Identify and report health and safety hazards and maintenance requirements
2. Operate the ash separation process	2.1 Start and operate the ash separation system according to operating procedures 2.2 Confirm process performance is maintained within manufacturer's specifications to meet workplace requirements 2.3 Ensure the work area meets workplace cleaning standards
3. Analyse and respond to abnormal performance	3.1 Monitor ash separation system operating conditions 3.2 Take corrective action to rectify causes of abnormal performance 3.3 Implement emergency procedures according to workplace safety procedures
4. Hand over ash separation operations	4.1 Maintain operating log according to workplace procedures 4.2 Carry out handover according to workplace procedures 4.3 Ensure system operators are aware of system and related equipment status at completion of handover
5. Complete ash separation operations	5.1 Collect and dispose of ash according to workplace, environmental and waste handling requirements and procedures 5.2 Identify and report operational maintenance requirements according to workplace procedures 5.3 Record workplace information according to workplace procedures

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
Reading	Interpret workplace information relevant to job role
Numeracy	Monitor and interpret production and process control indicators and data

Skill	Description
	- Estimate storage capacities of ash holding areas - Calculate correct quantities of chemicals, including caustic soda and flocculants for use in system
Navigate the world of work	Apply workplace procedures to own role and responsibilities
Interact with others	Use modes of communication suitable to purpose to confirm and clarify understanding
Get the work done	- Access and interpret ash separation system process control panels and system - Make routine decisions to correct abnormal plant performance of ash separation system

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG2021 Operate an ash separation system	FDFSUG221A Operate an ash separation 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 FBPSUG2021 Operate an ash separation 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 an ash separation system in line with workplace contexts and demonstrated each of the following points at least once:

- conducted pre-start checks and followed start-up procedure
- selected, fitted and used required personal protective equipment (PPE)
- maintained work area to meet cleaning standards
- monitored the ash separation system
- recorded operating information
- observed safe chemical preparation and handling
- reported health and safety risks and maintenance requirements
- followed shift handover procedure
- taken corrective action in response to typical operating faults and product and process non-conformance
- safely disposed of ash.

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:

- properties of ash or soot and the impact on filter operation
- functions and operating principles of ash separation system and related equipment
- relationship between vacuum, filter speed and cake permeability
- key health and safety requirements for operating an ash separation system in the workplace:
 - correct use of PPE
 - procedures for responding to emergency situations, including safe shutdown procedure

- health and safety hazards related to operation of the ash removal system, and associated lock-out, tag-out and isolation procedures
- handover procedures for operating an ash separation system
- procedures and responsibility for reporting problems for operating an ash separation system
- environmental and waste handling requirements and procedures relevant to operating an ash separation system
- recording requirements and procedures for operating an ash separation 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
 - ash separation system and related equipment
 - workplace information recording system
- specifications:
 - operating procedures and related advice on equipment operation, including advice on safe work practices and environmental requirements
 - product and process specifications and operating parameters
 - workplace cleaning standards and procedures
 - workplace information recording procedures.

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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