



Australian Government

FBPSUG2011 Operate a mud filtration process

Release: 1

FBPSUG2011 Operate a mud filtration process

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 mud filtration process from the clarifiers to mud disposal.

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 mud filtration process for operation	1.1 Assess and condition mud to meet filtration requirements 1.2 Confirm services are available and ready for operation 1.3 Check equipment in readiness for use according to operating specifications 1.4 Select, fit and use personal protective equipment as required 1.5 Set the mud filtration process to meet production requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Operate and monitor the mud filtration process	2.1 Start and operate the mud filtration process according to operating procedures 2.2 Confirm process performance is maintained within specification 2.3 Ensure mud meets specifications for pol and moisture 2.4 Monitor equipment to confirm operating condition 2.5 Identify, rectify or report out-of-specification mud, process and equipment performance according to workplace procedures
3. Hand over the mud filtration process	3.1 Maintain workplace records according to workplace requirements 3.2 Carry out shift changeover according to workplace procedures 3.3 Ensure mud filtration station operators are aware of system and related equipment status at completion of handover
4. Shut down the mud filtration process	4.1 Identify the appropriate shutdown procedure for operational and long-term shutdown conditions 4.2 Safely shut down the mud filtration system according to operating procedures 4.3 Prepare the mud filtration system for storage in shutdown mode 4.4 Identify and report operational maintenance requirements 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 production requirements, workplace and standard operating procedures relevant to job role - Interpret production requirements
Numeracy	Interpret production and process control indicators and data
Navigate the world of work	Follow workplace procedures applicable to own role and responsibilities

Skill	Description
	Understand main tasks, responsibilities and boundaries of own role
Interact with others	Apply communication practices and protocols relevant to own role
Get the work done	- Complete tasks in required sequence - Apply decision-making processes to respond to abnormal performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG2011 Operate a mud filtration process	FDFSUG211A Operate a mud filtration process	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 FBPSUG2011 Operate a mud filtration process

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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 mud filtration process in line with workplace contexts and demonstrated each of the following points at least once:

- prepared materials for filtration requirements
- checked the availability of services
- conducted required pre-start checks on machinery used for filtration
- selected, fitted and used personal protective equipment (PPE)
- safely started, operated, monitored and adjusted the mud filtration process from the clarifiers to mud disposal
- correctly conducted shift changeover
- taken corrective action in response to typical faults, inconsistencies and product non-conformance
- correctly recorded process and production information
- safely shut down mud filtration process and related equipment 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:

- the purpose and principles of mud filtration, including the role of materials added, and their effect on filter operation
- the effect of recycle streams, addition rates, variations in process parameters and mud age on the mud filtration process
- the circuit flow of the process, and the relationship to related processes, including mud output, filter speed, water addition and cake permeability
- equipment purpose and operating principles of mud filtration equipment, including vacuum pumps and condensers

- significance and method of monitoring control points within the process
- common causes of variation in the mud filtration process, and corrective action
- key health and safety requirements when operating a mud filtration process:
 - 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
- environmental and waste handling requirements and procedures for the mud filtration 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
 - filtration and related equipment, services and materials
 - workplace information recording system
- specifications:
 - operating procedures and related advice on equipment operation, including advice on safe work practices and environmental requirements
 - information on equipment capacity and operating parameters
 - production schedule/batch instructions.

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

Links

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