



Australian Government

FBPSUG2020 Operate a coal fuel supply system

Release: 1

FBPSUG2020 Operate a coal fuel supply 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 coal fuel system and related auxiliary fuel system to supply a boiler. The auxiliary fuel supply system is typically an oil system.

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 in 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 fuel supply system for operation	1.1 Conduct pre-operational checks according to workplace procedures 1.2 Identify and control health and safety hazards according to workplace safety procedures 1.3 Select, fit and use personal protective equipment according to workplace safety 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>
	1.4 Identify and report maintenance requirements according to workplace procedures 1.5 Ensure primary and auxiliary fuel is available to meet combustion requirements according to workplace procedures 1.6 Confirm services are available and ready for operation
2. Start and monitor operation of the fuel supply system	2.1 Operate the system according to operating procedures 2.2 Confirm performance is maintained within operating procedures 2.3 Ensure the work area is maintained according to workplace cleaning standards
3. Analyse and respond to abnormal performance	3.1 Identify causes of abnormal performance in the operation 3.2 Take corrective action to rectify causes of abnormal performance 3.3 Implement emergency procedures according to health and safety
4. Hand over fuel system operations	4.1 Maintain workplace records according to workplace procedures 4.2 Carry out handover according to workplace procedures 4.3 Ensure operators are aware of system and related equipment status at completion of handover
5. Shut down the fuel supply system	5.1 Shut down the system according to operating procedures 5.2 Prepare the system for storage in shutdown mode according to operating procedures 5.3 Identify and report maintenance requirements according to workplace procedures 5.4 Store fuel to meet fuel requirements and workplace standards

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 information in workplace documentation

Skill	Description
Numeracy	• Monitor and interpret production and process control indicators and data • Calculate amount of caustic addition for each tonne of coal burnt
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 coal fuel supply system control panels and system • Make routine decisions to correct abnormal performance of coal fuel supply system

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG2020 Operate a coal fuel supply system	FDFSUG220A Operate a coal fuel supply 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 FBPSUG2020 Operate a coal fuel supply 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 coal fuel supply system in line with workplace contexts and demonstrated each of the following points at least once:

- followed set-up and start-up procedures
- confirmed status of fuel supply system and related services
- operated, monitored and adjusted a coal fuel system and related auxiliary fuel system to supply a boiler
- cleared fuel blockages or chokes throughout the system
- carried out procedures for test firing burners
- carried out procedures to take fuel supply system off-line
- removed, inspected, cleaned and replaced oil burners
- followed shift handover procedure
- taken corrective action in response to abnormal or unacceptable performance.

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:

- principles of flame management systems, including understanding of when and how to purge boiler before relighting in a flame-out situation
- the amount of caustic addition for each tonne of coal burnt
- purpose and operation of auxiliary fuel supply
- functions and operating principles of fuel supply system, components and auxiliary equipment
- supply system layout
- the effect of fuel quality and supply on boiler operation
- relationship between fuel supply system and other processes
- fuel storage requirements

- fuel reclamation options and procedures as appropriate for the workplace and fuel type
- key health and safety requirements relevant to operating a coal fuel supply system:
 - hazards related to operation of fuel supply system and associated control measures
 - correct use of personal protective equipment (PPE)
 - methods used to render equipment safe to inspect, maintain and clean, including lock-out, tag-out and isolation procedures
 - procedures for responding to emergency situations, including emergency shutdown procedure
- handover and long-term shutdown and storage procedures for operating a coal fuel supply system
- procedures and responsibility for reporting problems
- environmental and waste handling requirements and procedures for operating a coal fuel supply system
- recording requirements and procedures relevant to operating a coal fuel supply system.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace or an environment that accurately reflects performance in a real workplace setting
- resources, equipment and materials:
 - PPE
 - coal fuel supply equipment
 - auxiliary fuel supply equipment
 - fuel and services as required
 - maintenance tools
 - 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
 - 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.

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