



Australian Government

Assessment Requirements for FBPSUG2019 Operate a bagasse fuel supply system

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 a bagasse fuel supply system in line with workplace contexts and demonstrated each of the following points at least once:

- selected, fitted and used required personal protective equipment (PPE)
- conducted pre-start checks of equipment, fuel and services
- followed start-up procedures in both manual and automatic modes
- safely operated, monitored and adjusted a bagasse fuel system and related auxiliary fuel system to supply a boiler
- cleared fuel blockages or chokes throughout the system according to workplace procedures
- applied fuel storage and/or reclamation procedures
- applied procedures for test firing burners
- removed, inspected, cleaned and replaced oil burners
- carried out shift handover procedures
- taken a fuel supply system off-line according to workplace procedures
- taken corrective action in response to abnormal or unacceptable performance
- reported fuel system operations and maintenance requirements
- controlled work health and safety risks
- safely shut down bagasse fuel supply system.

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 bagasse and bagacillo, and impact of variation on combustion
- impact of bagasse belt levels on system capacity to supply

- principles of flame management systems, including understanding of when and how to purge boiler before relighting in a flame-out situation
- purpose and operation of auxiliary fuel supply
- functions and basic operating principles of fuel supply system, components and auxiliary equipment
- fuel storage requirements relevant to a bagasse fuel system
- fuel reclamation options and procedures
- the effect of fuel quality and supply on boiler operation
- bagasse fuel supply system layout to supply a boiler
- relationship between viscosity and temperature for burner operation
- purpose of atomising steam and/or air
- purpose of purge cycle for the burner
- relationship between fuel supply system and other processes
- key health and safety requirements relevant to operating a bagasse fuel system:
 - hazards related to operation of fuel supply system, and associated control measures
 - correct use of 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
- handover and long-term shutdown and storage procedures
- procedures and responsibility for reporting problems relevant to operating a bagasse fuel system
- environmental and waste handling requirements and procedures relevant to operating a bagasse fuel system
- recording requirements and procedures for operating a bagasse fuel 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
 - bagasse 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.

Links

Companion Volume Implementation Guides are found in VETNet: -

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