



Australian Government

Assessment Requirements for FBPSUG3006 Monitor a sugar mill powerhouse

Release: 1

Assessment Requirements for FBPSUG3006 Monitor a sugar mill powerhouse

Modification History

Release	Comments
Release 1	This version released with the 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 monitored a sugar mill powerhouse in line with workplace contexts and demonstrated each of the following points at least once:

- selected, fitted and used personal protective equipment (PPE)
- conducted warm-up sequence
- confirmed that turbines and alternators are ready for warm-up and operation
- handed over control to operating consul
- performed run-up procedures in both manual and automatic modes
- monitored powerhouse operation
- maintained cleaning standards in work area
- performed shift handover procedure
- recorded operating information
- taken corrective action in response to abnormal or unacceptable performance
- applied an understanding of emergency trip procedure and related re-start.

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:

- operating principles of process control, including the relationship between control panels and systems and the physical equipment
- purpose and principles of power generation, including the impact of out-of-range frequency voltage on equipment operation
- operating principles of powerhouse, and instrumentation components, purpose and operation, including the requirement to bar over alternators on start-up, shutdown and emergency stops
- layout of powerhouse, including location of overload protection for equipment and switches

- key health and safety requirements for sugar mill powerhouse operations:
 - hazards related to powerhouse operation, and associated control measures
 - correct use of PPE
 - methods used to render equipment safe to inspect, maintain and/or clean, including lock-out, tag-out and isolation procedures
 - procedures for responding to emergency situations, including safe shutdown procedure
- handover and long-term shutdown and storage procedures
- site procedures for the import and export of power
- environmental issues and controls, including controlling oil spillages.

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
 - appropriate steam turbine with an attached alternator and related equipment
 - communication equipment
 - workplace information recording system
- specifications:
 - operating procedures and related advice on equipment operation, including advice on safe work practices and environmental requirements
 - workplace cleaning standards 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>