



Australian Government

Assessment Requirements for FWPCOT3334 Conduct steam boiler operations

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

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 prepared for, started up, monitored and shut down a steam boiler in a timber or wood products production facility for two production cycles with different specified energy generation requirements.

In performing this task, the individual has:

- followed workplace health and safety and environmental protection practices and/or procedures
- conducted pre-operational checks on steam boiler
- diagnosed and adjusted control settings during operation
- identified and rectified boiler operating faults
- handled and labelled boiler house chemicals correctly
- prepared steam boiler for periodic inspection
- completed operational and maintenance reports.

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:

- environmental protection requirements and practices for boiler operations, including:
 - cleaning plant, tools and equipment
 - disposing of hazardous substances
- characteristics and dangers of steam
- purpose, features and operation of:
 - steam-generating boilers, including liquid or vapour restricted to water or steam
 - fuel and fuel supply system
- energy generation capacity of workplace steam boilers

- processes for boiler start-up, shutdown, cleaning and storage
- range of data used to evaluate boiler performance, including:
 - steam levels
 - pressure levels
 - energy generation levels
 - heat build-up
 - system overload information
 - test outcomes for water quality and chemicals
 - past performance records
- types, uses and labelling of boiler house chemicals, including safe handling and storage
- methods used to:
 - remove valves and fittings
 - clean boilers internally and externally
 - monitor operation and diagnose status of steam boiler
 - inspect boilers after shutdown
- workplace procedures specific to operating steam boilers, including:
 - boiler inspection and maintenance
 - health and safety, with particular emphasis on shutdown, equipment lock-out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting on operational and fuel efficiency data, equipment faults and maintenance requirements.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing plant, a timber manufacturing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - steam-generating boiler
 - fuel and fuel supply system
 - boiler house chemicals and labels
 - valves and tools for replacing valves
 - personal protective equipment suitable for operating steam boilers
- specifications:
 - workplace procedures for steam boiler operations
 - templates for documenting relevant information on steam boiler operations
 - manufacturer safety data sheets for chemicals used in steam boiler operations

- workplace health and safety and environmental protection policies and/or procedures applicable to boiler operations.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>