



Australian Government

FWPCOT3334 Conduct steam boiler operations

Release: 1

FWPCOT3334 Conduct steam boiler operations

Modification History

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

Application

This unit of competency describes the skills and knowledge required to prepare for, start up, monitor, shut down and store a steam-generating boiler.

The unit applies to individuals who operate steam boilers in a timber or wood products production facility.

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.

This unit should not be used where the boiler equipment falls under the category for which a high risk work licence is required. Users are advised to check with the relevant regulatory authority for appropriate unit and licensing requirements.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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 for steam boiler operations	1.1 Determine job requirements from work order and, where required, check with appropriate personnel 1.2 Confirm workplace health and safety and environmental protection

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	practices and/or procedures and emergency procedures for tasks 1.3 Identify and assess hazards and take actions to mitigate risks related to steam boiler operations 1.4 Select and use appropriate personal protective equipment and check for operational effectiveness 1.5 Identify and set quantity of steam to be generated for allocated process as specified in work order 1.6 Check boiler house chemicals for correct labelling to ensure compliance with safety and regulatory requirements 1.7 Complete pre-operational safety and pre-start-up checks to ensure operational effectiveness of boiler
2. Start up and monitor boiler	2.1 Start boiler according to workplace procedures 2.2 Assess boiler condition for anomalies during start-up, and rectify or report to relevant personnel according to workplace procedures 2.3 Monitor boiler operation, diagnose status and adjust to maintain safe and efficient operation 2.4 Store and record boiler house chemicals according to workplace safety and environmental protection practices and/or procedures 2.5 Shut down boiler in cases of fire according to emergency procedure 2.6 Record and report boiler operation and fuel efficiency to appropriate personnel
3. Shut down, inspect and store boiler	3.1 Isolate and shut down boiler according to workplace safety procedures 3.2 Prepare boiler for periodic internal and external inspection according to workplace procedures and manufacturer instructions 3.3 Inspect and test boiler regularly according to workplace boiler inspection and maintenance program 3.4 Remove valves and fittings according to workplace procedures and manufacturer requirements, if required 3.5 Clean boiler externally and internally, as required, according to workplace procedures, environmental protection requirements and manufacturer instructions 3.6 Select storage mode and store boiler according to workplace 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>
	3.7 Record and report equipment faults and maintenance requirements to appropriate personnel

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 from workplace procedures and documents, including Safety Data Sheets and chemical labels
Writing	Complete routine records for boiler operations, equipment faults and maintenance requirements
Oral communication	Ask questions and actively listen to clarify contents of operational orders
Numeracy	- Interpret basic numerical machine settings, gauges and data recording equipment - Record numerical data involving fuel efficiency - Calculate approximate heating requirements and volumes of steam - Measure and record chemical usage

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3334 Conduct steam boiler operations	FWPCOT3231 Operate steam boiler	Redesigned unit that includes content from FWPCOT3231 Operate steam boiler and FWPCOT4206 Plan and coordinate boiler operations	Not equivalent
FWPCOT3334 Conduct steam boiler	FWPCOT4206 Plan and coordinate boiler	Redesigned unit that includes content from	Not equivalent

operations	operations	FWPCOT3231 Operate steam boiler and FWPCOT4206 Plan and coordinate boiler operations	
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Links

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