



**Australian Government**

# **FWPCOT3231 Operate steam boiler**

**Release: 1**

# FWPCOT3231 Operate steam boiler

## Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3231B Operate steam boiler, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

## Application

This unit of competency describes the outcomes required to start up, operate and store a steam-generating boiler.

The unit applies to steam boiler operators in a timber processing plant setting and includes shutting down and cleaning equipment.

Licensing, legislative, regulatory, or certification requirements apply to this unit in some states & territories at the time of publication and may differ according to jurisdiction.

## Pre-requisite Unit

Nil

## Unit Sector

Sawmilling and Processing

Timber Manufactured Products

Wood Panel and Board Production

## Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for operation	<p>1.1 Review operational order and where required check with appropriate personnel.</p> <p>1.2 Select appropriate personal protective equipment and check for operational effectiveness.</p> <p>1.3 Identify and set quantity of steam to be generated for allocated process.</p>

	1.4 Plan steam generation in line with work order.
2. Operate and monitor boiler	<p>2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices.</p> <p>2.2 Complete pre-operational safety and pre start-up checks to ensure operational effectiveness.</p> <p>2.3 Start boiler and bring safely on line; communicate recent performance to appropriate personnel.</p> <p>2.4 Assess continued operation of boiler against pre-operational checks, maintenance requirements and operating conditions.</p> <p>2.5 Monitor boiler operation, diagnose status and adjust to maintain safe and efficient operation.</p> <p>2.6 Store and record boiler house chemicals, in line with safety procedures and environmental protection practices.</p> <p>2.7 Follow emergency shutdown procedures in cases of fire.</p> <p>2.8 Complete operating log, record fuel efficiency and report to appropriate personnel.</p>
3. Shut down and store boiler	<p>3.1 Follow organisational safety procedures to shut down equipment.</p> <p>3.2 Prepare boiler for inspection process; remove valves and fittings in line with organisational safety procedures.</p> <p>3.3 Clean boiler externally and internally if appropriate in line with environmental protection practices.</p> <p>3.4 Select storage mode and store boiler in line with organisational safety procedures.</p> <p>3.5 Record and report and equipment faults and maintenance requirements to appropriate personnel.</p>

## Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.	
Numeracy skills to:	<ul style="list-style-type: none"> <li>• read basic numerical machine settings and select according to operational requirements</li> <li>• record numerical data involving fuel efficiency</li> <li>• calculate approximate heating requirements and volumes of steam</li> <li>• measure and record chemical usage</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>• ask questions and actively listen to clarify contents of operational</li> </ul>

skills to:	orders.
Reading skills to:	<ul style="list-style-type: none"> <li>• interpret: <ul style="list-style-type: none"> <li>• workplace health and safety and other organisational procedures including Material Safety Data Sheets</li> <li>• operational orders</li> <li>• manufacturers' instructions and maintenance recommendations.</li> </ul> </li> </ul>
Writing skills to:	<ul style="list-style-type: none"> <li>• complete accurate basic records for boiler operations, equipment faults and maintenance requirements.</li> </ul>
Planning and organising skills to:	<ul style="list-style-type: none"> <li>• efficiently and logically sequence the stages of boiler start up, shut down and cleaning using work order to guide activities.</li> </ul>

## Range of Conditions

Not Applicable

## Unit Mapping Information

FPICOT3231B Operate steam boiler

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>