



Australian Government

PPMSTM301 Perform steam boiler operations

Release: 1

PPMSTM301 Perform steam boiler operations

Modification History

Release	Comments
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to prepare for, start up, stabilise and shut down systems for unattended steam boiler operations.

This unit applies to production operators who perform unattended steam boiler operations, and respond to contingencies that occur working with complex integrated equipment and continuous operations.

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

Pre-requisite Unit

Nil

Unit Sector

Steam Generation (STM)

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 unattended steam boiler operations	1.1 Identify production requirements and specifications to plan operations and processes 1.2 Identify workplace health and safety hazards, assess risks and determine control measures 1.3 Identify process control points according to production specifications

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Confirm availability of process supplies 1.5 Select, fit and use personal protective equipment according to job requirements and task to be undertaken 1.6 Communicate production requirements and specifications, work health and safety and environmental requirements and operating procedures to relevant personnel
2. Inspect, start up and monitor boiler operations	2.1 Confirm plant status through inspections of plant and electronic control systems and other information 2.2 Remove isolations according to operating procedures 2.3 Establish pre-light conditions according to production requirements and specifications 2.4 Conduct pre-operational and safety checks on equipment according to workplace health and safety and operating procedures 2.5 Start boiler according to operating procedures 2.6 Monitor boiler condition during start-up to detect abnormal conditions 2.7 Detect deviations from required operating conditions, and rectify common faults or refer complex faults to specialist technician
3. Shut down, inspect and maintain boiler	3.1 Isolate and shut down boiler and ancillary plant according to workplace health and safety and operating procedures 3.2 Prepare boiler for inspection according to operating procedures 3.3 Establish condition of boiler to ensure safe removal of equipment 3.4 Inspect boiler and complete routine preventative maintenance 3.5 Clean boiler internally and externally according to environmental and housekeeping requirements
4. Store boiler in shutdown mode	4.1 Establish storage time and condition of storage according to productivity and workplace requirements 4.2 Store boiler according to manufacturer specifications
5. Respond to unplanned or emergency shutdowns	5.1 Respond to unplanned faults and stoppages according to operating, emergency and workplace health and safety procedures 5.2 Complete shutdown and isolation according to operating procedures 5.3 Locate and rectify cause of unplanned shutdown within area of

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	responsibility 5.4 Monitor and maintain continuing plant operation in safe working mode 5.5 Notify relevant personnel to rectify and make plant ready for restart
6. Record and report production information	6.1 Record production and boiler operation information according to workplace requirements 6.2 Report problems or variations with production and plant to relevant 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 documentation
Writing	Complete records accurately and legibly using clear language and industry terminology
Oral communication	Provide information about start-up and shutdown operations, problems or variations with production, quality and system using clear language and industry terminology
Numeracy	- Interpret numerical settings on instruments, gauges and data recording equipment - Use measuring equipment to calculate and measure materials and supplies - Record numerical data for boiler and operational performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
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Code and title current version	Code and title previous version	Comments	Equivalence status
PPMSTM301 Perform steam boiler operations	PPMSTM320 Manage steam boiler start up	Merges two units Changes to unit title, elements, performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions updated	Not equivalent
PPMSTM301 Perform steam boiler operations	PPMSTM330 Shut down and bank steam boiler	Merges two units Changes to unit title, elements, performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>