PPMSTM440 Troubleshoot and rectify boiler plant systems

Release: 2

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Modification History

Release	Comments
Release 2	This version released with PPM Pulp and Paper Manufacturing Training Package Version 2.0.
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 1.0.

Application

This unit of competency describes the skills and knowledge required to identify, diagnose, rectify and report faults in boiler plant systems, in the pulp and paper industry.

The unit applies to senior operators and production specialists who troubleshoot and rectify boiler plant systems, in a pulp or paper manufacturing facility. This typically involves working in a facility with complex integrated equipment and continuous operations.

No licensing, legislative or certification requirements apply to this unit at the time of publication. Where the boiler equipment falls under the category for which a High Risk Work Licence is required, this unit should not be used and the appropriate unit should be sought.

Pre-requisite Unit

Nil

Unit Sector

Steam generation (STM)

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Identify and diagnose causes of faults	1.1 Check and plan work according to productivity requirements, environmental sustainability procedures, workplace health and safety and standard operating procedures (SOP) including the use of appropriate personal protective equipment, risks and hazards

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
	identification and housekeeping requirements
	1.2 Interpret abnormal plant conditions and machine alarms to determine fault type and location
	1.3 Undertake physical inspections of plant, equipment and processes to identify faults
	1.4 Identify boiler type and locate cause and source of fault
	1.5 Isolate faulty plant, if possible, and confirm with production and maintenance
	1.6 Confirm diagnosis by access and reference to relevant historical data
	1.7 Communicate diagnosis to relevant personnel
2. Rectify faults	2.1 Implement shutdown and isolation procedures
	2.2 Repair or replace faulty equipment in accordance with work health and safety and SOP
	2.3 Adjust process and systems to restore normal operations
	2.4 Communicate normal operations to relevant personnel
3. Record and report operational data	3.1 Document troubleshooting process and responses to corrective actions, as required
	3.2 Document variations from standard specifications and boiler operating faults
	3.3 Communicate relevant information 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	• Read and interpret documentation, procedure manuals and customer orders relevant to boiler plant systems
Writing	• Record accurately and legibly, fault rectifications, using correct technical vocabulary

Skill	Description
Oral communication	• Select and use appropriate spoken communication strategies with work colleagues and other personnel on site to assist with analysis and resolution of operational problems and to manage troubleshooting and maintenance
Numeracy	• Interpret instruments, gauges and data recording equipment • Use measuring equipment and undertake calculations to aid troubleshooting
Navigate the world of work	• Use electronic and other control systems to control equipment and processes • Access, navigate and enter computer based information
Get the work done	• Maintain situational awareness in the work area • Analyse and use sensory information to adjust process to maintain and coordinate safety, quality and productivity

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMSTM440 Troubleshoot and rectify boiler plant systems Release 2	PPMSTM440 Troubleshoot and rectify boiler plant systems Release 1	Minor changes to performance criteria and knowledge evidence, minor change to licensing statement	Equivalent unit

Links

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