



Australian Government

PPMSTM401 Troubleshoot and rectify boiler plant systems

Release: 1

PPMSTM401 Troubleshoot and rectify boiler plant systems

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 identify, diagnose, rectify and report faults in boiler plant systems.

The unit applies to senior operators and production specialists who troubleshoot and rectify system faults that occur in continuous boiler plant operations.

Licensing requirements apply to this unit 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 current 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. Identify and diagnose causes of system faults	1.1 Prepare for boiler plant system rectification according to operational requirements and workplace health and safety and environmental procedures 1.2 Identify safety hazards and determine risk control measures with relevant personnel 1.3 Interpret abnormal plant conditions and machine alarms, and make physical inspection to determine fault type and location 1.4 Check for recent work undertaken on plant, and address

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	outstanding issues 1.5 Identify boiler type and locate cause and source of fault 1.6 Isolate faulty plant, if possible, and confirm with production and maintenance 1.7 Confirm diagnosis by access and reference to relevant historical data 1.8 Communicate diagnosis to relevant personnel
2. Rectify faults	2.1 Shut down and isolate equipment according to operating procedures 2.2 Repair or replace faulty equipment according to workplace health and safety and equipment specifications 2.3 Adjust process and systems to restore normal operations 2.4 Verify and communicate restoration to normal operations to relevant personnel
3. Record and report troubleshooting and rectification activities	3.1 Document troubleshooting process and responses to corrective actions according to workplace requirements 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	Interpret information from a range of documentation
Writing	Complete accurate detailed records and reports for system and product faults, diagnostic and corrective action processes using the required format
Oral communication	Provide comprehensive information about problems with equipment and products using clear language and industry

Skill	Description
	terminology • Provide clear, unambiguous information about return to normal operations to system operators and other personnel
Numeracy	• Interpret numerical settings on instruments, gauges and data recording equipment • Interpret system data • Record detailed numerical data for system • Use measuring equipment to measure and inform calculations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMSTM401 Troubleshoot and rectify boiler plant systems	PPMSTM440 Troubleshoot and rectify boiler plant systems	Changes to 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>