



Australian Government

Assessment Requirements for PPMSTM401 Troubleshoot and rectify boiler plant systems

Release: 1

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Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has carried out troubleshooting and rectification activities for boiler plant systems on at least two occasions according to operational requirements, including for each occasion:

- selected and used appropriate troubleshooting methods to correct plant and equipment faults
- identified causes and effects of faults, and corrective action on associated processes
- identified and rectified faults in plant and equipment
- communicated effectively and worked safely with others when undertaking troubleshooting and rectification activities
- completed accurate records on troubleshooting and rectification activities and actions undertaken.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- workplace and legislative health and safety requirements and risk measures relevant to operating, troubleshooting and rectifying boiler plant systems, including emergency procedures, handling chemical and hazardous substances, high risk load shifting, licensing requirements, plant clearance and permit systems
- relevant workplace and legislative environmental sustainability requirements and practices for boiler operations, including workplace biotechnological applications and processes considerations for troubleshooting and rectification activities
- troubleshooting methods that can be applied across boiler plant system faults
- types and implications of pre-operational checks
- manufacturer specifications and operating procedures for boiler plant and equipment, including shutdown and isolation procedures

- steam generation system, processes and associated services, including:
 - plant layout
 - theory of operation
 - causes and effects of adjustments made to steam generation plant and processes
 - relationships between steam generation system, processes and associated services
- use of materials and supplies for boiler plant systems
- use of boiler water treatment system and reasons for treatment
- use of electronic and other control systems, operation and application to make appropriate adjustments that control boiler plant operations.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - boiler plant and system
 - tools, equipment and materials used to troubleshoot and rectify boiler plant operations
 - electronic control systems that include digital control system, touch screens or robotics required for boiler plant operations
 - personal protective equipment required for troubleshooting boiler plants systems
 - proforma or recording system for recording diagnostic and corrective action processes
- specifications:
 - workplace and standard operating procedures relating to troubleshooting and rectifying boiler plants systems, including health and safety, environmental, risks and hazards identification, plant isolation and quality requirements
 - plant manufacturing operating manuals
- relationships:
 - relevant personnel for the purposes of communicating information.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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