



Australian Government

Assessment Requirements for PPMSTM201 Monitor and control boiler operations

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 undertaken routine monitoring and control of boiler operations for at least two operational intervals, including for each interval:

- completed the following types of tests:
 - low water level alarm
 - high water level alarm
 - low water level alarm lock-out
 - hydrostatic
 - burner management system
 - safety valve
- completed routine maintenance on boiler plant
- completed accurate records for the operation
- communicated clear information on boiler operation status for handover.

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 health and safety requirements and procedures for unattended boiler operations
- permits and licensing requirements for facility hazards and high risk plant and equipment relevant to unattended boiler operations
- workplace environmental sustainability requirements and practices for unattended boiler operations, including workplace biotechnological applications and processes
- characteristics and dangers of steam
- purpose, features and operation of fire and water tube boilers and associated fuel types and delivery systems

- purpose, features and operation of steam boiler plant, operating parameters and allowable variations for fire and water tube types
- operation and application of electronic and other control systems to control unattended boiler operations
- key features of the full range of processes involved in controlling unattended boiler operations
- methods used to maintain steam distribution systems
- boiler water treatment system and reasons for treatment
- data used to monitor boiler performance, including:
 - steam levels
 - pressure levels
 - generation levels
 - heat build-up
 - system overload information
 - test outcomes for water quality and chemicals
 - past performance records
- standard operating procedures specific to unattended boiler operations
- procedures for communicating, recording and reporting boiler operations, processes and faults.

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 reflects performance in a workplace
- resources, equipment and materials:
 - a fire or water tube boiler
 - maintenance tools and equipment and consumables for boiler
 - electronic control systems, including digital control system, touch screens or robotics required to control boiler operations
 - personal protective equipment required for operating a boiler
 - proforma or recording system for recording data and information on unattended boiler operations
- specifications:
 - workplace and standard operating procedures relating to unattended boiler operations, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements
 - maintenance schedules for boiler
- 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>