



Australian Government

Assessment Requirements for PPMSTM210 Monitor and control boiler operation

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.

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 operated a boiler at least twice in line with required enterprise intervals and:

- completed the following types of tests during required operational periods:
 - low water level alarm
 - high water level alarm
 - low water level alarm lockout
 - hydrostatic
 - burner management system
 - safety valve
- completed routine maintenance on boiler plant
- completed records for boiler operation:
 - operating log
 - fuel efficiency records
 - records of steam generation processes and maintenance requirements.

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:

- organisational procedures relevant to workplace health and safety with particular emphasis on:
 - use of personal protective equipment (PPE)
 - equipment lock out and isolation procedures
 - handling chemicals and hazardous substances, including spill and disposal guidelines

- plant clearance requirements
- emergency procedures and responses
- job safety analysis documentation and processes
- plant permit systems and processes
- high risk load shifting licensing requirements where relevant
- major hazard facility requirements where relevant
- characteristics and dangers of steam
- boiler plant layout
- purpose, features and operation of these types of boilers and associated fuel types and delivery systems:
 - fire tube
 - water tube
- operating parameters and allowable variations for those boiler types
- operation and application of electronic and other control systems
- key features of equipment required to monitor and control boiler operations
- purpose of, and processes for sampling and testing plant and system operations
- methods used to maintain steam distribution systems
- boiler water treatment system and reasons for treatment
- data used to evaluate 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
- organisational procedures including:
 - standard operating procedures (SOP) specific to boiler operations
 - communication reporting lines
 - recording and reporting steam generation processes and maintenance requirements.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace or a productive environment that accurately reflects performance in a workplace
- resources, equipment and materials:
 - a boiler which can be fire or water tube type
 - fully automated, semi-automated, manually operated plant and equipment required for boiler operation in a pulp or paper manufacturing facility

- maintenance tools and equipment and consumables for boiler maintenance
- PPE suitable for operating a boiler
- specifications:
 - maintenance schedules for boiler
 - template documents including operating log, fuel efficiency records, documents for recording steam generation processes and maintenance requirements
 - organisational workplace health and safety and SOP.

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.education.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>