



**Australian Government**

# **Assessment Requirements for PPMSTM330 Shut down and bank steam boiler**

**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:

- coordinated planned shutdowns of a steam boiler, at least twice in line with required enterprise intervals, and completed the following tasks after shutdown:
  - inspected the boiler and completed routine preventative maintenance
  - cleaned the boiler internally and externally
  - analysed stored boiler water and chemicals
  - completed basic records for shutdown processes and maintenance requirements
- responded to unplanned or emergency shutdowns, which can be a real time event or by scenario, and implemented responses appropriate to the cause and completed a basic report on corrective action processes.

## 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
- boiler plant layout
- purpose, features and operation of these types of boilers and associated fuel types and delivery systems:
  - fire tube
  - water tube
- operation and application of electronic and other control systems
- boiler water treatment system and reasons for treatment
- purpose of, and processes for analysing stored boiler water and chemicals
- key features and purpose of equipment required to shut down and store a steam boiler
- types, causes and effects of, and required emergency and other responses to, unplanned boiler shutdowns:
  - power outage
  - mechanical breakdown
  - blockages
  - jamming
  - air supply
  - control system failure
- methods used to:
  - test boiler operations and diagnose faults
  - clean boilers internally and externally
- organisational procedures:
  - standard operating procedures (SOP) specific to boiler shutdown
  - communication reporting lines
  - recording and reporting shutdown 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 shutting down boiler operation in a pulp or paper manufacturing facility
  - testing equipment for boiler water and chemicals
  - maintenance tools and equipment and consumables for boilers
  - PPE suitable for maintaining and shutting down a boiler
- specifications:

- template documents for recording shutdown processes and maintenance requirements
- organisational workplace health and safety and SOPs for boiler shutdown.

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>