



Australian Government

Assessment Requirements for PPMSTM301 Perform steam 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 planned for, coordinated, and safely started up and shut down unattended steam boiler operations for at least two operational intervals, including for each operational interval:

- determined and monitored process control points
- monitored, assessed causes and rectified boiler condition and unplanned shutdown
- used and interpreted electronic control systems during operations
- applied safe use and handling of chemicals and materials
- recorded and reported accurate operational data
- communicated effectively and worked safely with others when undertaking unattended steam boiler operations.

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 relevant to performing unattended steam boiler operations, 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 unattended steam boiler operations, including workplace biotechnological applications and processes
- methods used to identify and manage hazards and risks that apply to unattended steam boiler operations
- purpose, features and operation of fire and water tube boilers and associated fuel types and delivery systems
- standard operating procedures specific to unattended steam boiler operations

- types, uses and characteristics of materials and supplies for unattended steam boiler operations
- boiler water treatment system and reasons for treatment
- methods used to monitor unattended steam boiler system operations against specified system parameters
- effect of process adjustments on product quality and productivity during operation
- application of electronic and other control systems used to operate, control and make appropriate adjustments to unattended steam boiler operations
- purpose and processes for, analysing stored boiler water and chemicals, particularly for boilers stored for extended periods
- causes of and responses used for unplanned shutdowns of unattended boilers
- procedures for communicating, recording and reporting system operation, production outcomes and equipment 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 represents workplace conditions
- resources, equipment and materials:
 - a fire or water tube boiler
 - maintenance tools and equipment and consumables for unattended steam boiler
 - electronic control systems that include digital control system, touch screens or robotics used in unattended steam boiler systems
 - materials used in unattended steam boiler processes
 - personal protective equipment required for operating steam boiler
 - proforma or recording system for recording system and production data and information on unattended boiler operations
- specifications:
 - workplace and standard operating procedures relating to unattended steam boiler operations, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements
- 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>

