Assessment Requirements for PPMSTM320 Manage steam boiler start up

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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:

- managed a steam boiler startup, at least twice in line with required enterprise intervals
- checked, set up and started the boiler within an appropriate time frame
- implemented isolation and access procedures
- identified and actioned problems
- identified and monitored process control points
- maintained a clean and hazard free work area
- recorded and reported on operational data
- communicated effectively, through written and verbal means, and working safely with others, in the work area.

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
- implications of pre operational checks including:
  - low water level alarm
  - high water level alarm
  - low water level
  - alarm lockout
  - hydrostatic test
  - burner management system
  - safety valve test
- documentation and procedures relevant to steam boiler startups, in the pulp and paper industry including:
  - appropriate boiler/pressure vessel operator certification
  - confined space standards and regulations
  - productivity requirements
  - quality procedures
  - standard operating procedures (SOP)
  - environmental sustainability requirements and practices
  - machinery and plant manufacturing operating manuals
  - enterprise policies and procedures
  - job sheets and operator's log
  - manufacturer's specifications and maintenance documentation
  - safety data sheets
  - incidents reports
- the use of materials and supplies for boiler startups including:
  - chemicals
  - coal
  - oil
  - gas
  - additives
  - air
  - water
  - wood waste
  - steam recovery process products
  - power
- maintenance systems including:
  - operator level maintenance egies as per site agreements
  - operator maintenance schedules
  - maintenance suppliers
  - pro-active maintenance strat

- processes, layout and associated services relevant to steam generation plant and sufficient to carry out startup activities within level of responsibility
- boiler water treatment system and reasons for treatment
- electronic and other control systems, operation and application to make appropriate adjustments that control steam generation systems.

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:
  - access to the full range of equipment required to start up steam boiler operations in a pulp or paper manufacturing facility
  - electronic control systems which includes digital control system, touch screens or robotics required for steam boiler startup
  - PPE suitable for managing a steam boiler startup
- specifications:
  - applicable workplace health and safety and isolation work place procedures, environmental guidelines and safe working requirements, risks and hazard identification and workplace housekeeping requirements
  - sample workplace documentation, procedures and reports including SOP, quality procedures, environmental sustainability requirements/practices, plant manufacturing operating manuals, enterprise policies and procedures, oil or chemical spills and disposal guidelines, plant isolation documentation, safe work documentation.

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