



Australian Government

Assessment Requirements for PPM CPR301 Operate chemical systems

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 prepared and coordinated, and safely started up and shut down, a chemical system for at least two operational intervals, including for each operational interval:

- determined and monitored process control points
- monitored, assessed causes and adjusted systems to rectify variations from specifications
- used and interpreted electronic control systems during operations
- applied safe use and handling of chemicals and materials
- recorded and reported accurate operational data.

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 operating chemical systems, including emergency procedures, handling chemicals and hazardous substances, high risk load shifting, licensing requirements, plant clearance and permit systems
- relevant workplace and legislative environmental sustainability requirements and practices for operating chemical systems, including workplace biotechnological applications and processes
- methods used to identify and manage hazards and risks that apply to chemical systems
- chemical system layout, chemical preparation processes and systems
- chemical plant and machinery functions and operations
- sampling and testing process for plant and system operations, and process monitoring – purpose, standards and procedures as per site agreements
- cause and effects of operational equipment faults, and appropriate rectification action
- types, causes and effects of shutdowns, and appropriate responses

- required responses to all unplanned shutdowns, including power outage, mechanical breakdown, blockages, jamming, air supply and control system failure, to ensure safety, quality and productivity
- process and procedures for plant shutdowns and unplanned shutdowns
- electronic and other control systems, operation and application to make appropriate adjustments.

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 pulp and/or paper manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - chemical product and systems
 - electronic control systems that include digital control system, touch screens or robotics used in dry end systems
 - personal protective equipment required for preparing chemical products and operating system
 - recordkeeping system
- specifications:
 - workplace and standard operating procedures relating to chemical preparation and operating chemical systems, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements.

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>