



Australian Government

Assessment Requirements for PPMREC301 Perform chemical recovery 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, operated and shut down chemical recovery operations for at least two operational intervals, including for each operational interval:

- determined chemical recovery temperatures, oxidation, combustion and evaporation rates for operation
- determined and monitored process control points
- monitored, assessed causes and adjusted systems to rectify variations from specifications 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 chemical recovery 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 chemical recovery 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 chemical recovery operations, including workplace biotechnological applications and processes and biomass-derived products
- methods used to identify and manage hazards and risks that apply to chemical recovery operations

- chemical recovery systems and processes, plant layout and associated services relevant to carrying out start-up, stabilising and shutdown activities
- standard operating procedures specific to chemical recovery operations
- types, uses and characteristics of raw product and by-products for chemical recovery operations, and how they influence paper properties
- quality requirements for different types of chemical recovery products
- purpose of, and processes for, sampling and testing product quality, plant and system operations
- methods used to monitor chemical recovery 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 chemical recovery operations
- responses used for unplanned shutdowns, including those caused by power outage, mechanical breakdown, blockages, jamming, air supply and control system failure
- 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 pulp and/or paper manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - chemical recovery system and plant
 - pumps and transfer equipment
 - mechanical, hydraulic and electrical systems
 - process monitoring and management equipment
 - maintenance tools and equipment and consumables for chemical recovery plant
 - electronic control systems include digital control system, touch screens or robotics used in chemical recovery systems
 - chemical and materials used in chemical recovery processes
 - personal protective equipment required for operating chemical recovery systems
 - proforma or recording system for recording system and production data and information
- specifications:
 - workplace and standard operating procedures relating to chemical recovery 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>