



Australian Government

Assessment Requirements for PPMWAS301 Operate water 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 planned for, coordinated, and safely started up and shut down a water system for at least two operational intervals, including for each operational interval:

- determined and monitored process control points
- monitored, assessed causes and adjusted system to rectify variations from specifications and unplanned shutdown
- used and interpreted electronic control systems during operation
- recorded and reported accurate operational data
- conducted operator-level maintenance on system
- communicated effectively and worked safely with others when operating water system.

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 water systems, 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 operating water systems, including workplace biotechnological applications and processes
- methods used to identify and manage hazards and risks that apply to operating water systems
- types of water systems and processes, plant layout and associated services relevant to carrying out start-up, and shutdown activities
- standard operating procedures specific to water systems

- types and impact of different types of water sources, including raw, mains or recycled water, on water systems
- purpose of, standards and processes for sampling and testing water quality, plant and system operations, and process monitoring
- purpose and requirements of operator-level maintenance schedules
- methods used to monitor water 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 water systems
- causes of and responses used for unplanned shutdowns of water systems
- 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:
 - water system, equipment and consumables required to operate water system
 - test and diagnostic equipment
 - personal protective equipment required for operating water systems
 - proforma or recording system for recording system and production data and information
- specifications:
 - workplace and standard operating procedures relating to water system operations, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements
 - maintenance schedule for water system
- 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>