



Australian Government

Assessment Requirements for PPMWAS401 Troubleshoot and rectify 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 carried out troubleshooting and rectification activities for water systems on at least two occasions according to operational requirements, including for each occasion:

- selected and used appropriate troubleshooting methods and testing methods to identify water system, water quality and equipment faults
- diagnosed causes and sources of faults on system and associated processes
- identified and taken timely corrective action to rectify and maximise safety, quality and productivity
- communicated effectively and worked safely with others when undertaking troubleshooting and rectification activities
- completed accurate detailed records for system and water quality faults, diagnostic and corrective action processes on completion of fault rectification activity.

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 and risk measures relevant to operating, troubleshooting and rectifying 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 water system operations, including workplace biotechnological applications and processes considerations for troubleshooting and rectification activities
- troubleshooting methods that can be applied across problem faults in water systems
- manufacturer specifications and operating procedures for water system and equipment, including shutdown and isolation procedures

- impact of different types of water sources, including raw, mains or recycled water, on water systems
- use of sampling and testing checks for water quality
- types and key features of water systems, processes and associated services sufficient to troubleshoot, including:
 - plant layout
 - theory of operation
 - causes and effects of adjustments made to water system and processes
 - relationships between water system, processes and associated services
- implications of the use of water types
- identification and response to hazards and risks of water systems including compressed air, nip points and flooding
- materials and supplies used in water systems, including chemicals and filtering mediums
- fully automated, semi-automated and manually operated plant and equipment appropriate to water processes and systems.

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:
 - tools, equipment and materials used to troubleshoot and repair water systems
 - personal protective equipment required when working with water systems
- specifications:
 - workplace and standard operating procedures relating to troubleshooting and rectifying water systems, including health and safety, environmental, risks and hazards identification, plant isolation and quality requirements
 - manufacturer specifications and operating procedures
- 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>