Modification history

Release	Comments
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 3.0.

PPMWEO4XX	Troubleshoot and rectify wet end systems
Application	This unit of competency describes the skills and knowledge required to analyse, rectify and report on system, equipment and quality faults in the wet end operations of a pulp and paper manufacturing facility.
	The unit applies to senior operators and production specialists who work in the pulp and paper manufacturing industry and troubleshoot and rectify complex faults that occur in continuous wet end operations.
	No licensing, legislative or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Wet end operations (WEO)

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Identify and analyse causes of system and quality faults	 1.1 Prepare for rectification of wet end system according to productivity requirements and work health and safety and environmental procedures 1.2 Identify safety hazards and determine risk control measures with relevant personnel
	 1.3 Interpret alarm mechanism and make observations on plant and processes to determine fault type and location 1.4 Conduct systemic sampling and testing and interpret results to detect quality faults and variations from operating parameters
	1.5 Access and interpret relevant sources of information and check for recent work undertaken on plant to assist analysis.
	 1.6 Analyse causes and sources of process problems or equipment faults and impact on productivity requirements 1.7 Report fault and proposed corrective actions to relevant personnel
2. Rectify systems and equipment faults	 2.1 Shut down and isolate equipment according to operating procedures 2.2 By-pass faulty equipment where the process allows 2.3 Repair or replace faulty equipment according to equipment specifications
	 2.4 Make corrective adjustments to equipment according to equipment specifications 2.5 Undertake operator level maintenance as required 2.6 Verify restoration to normal operation and communicate to relevant
2. De etificare du et avalita	personnel
3. Rectify product quality faults	3.1 Conduct further testing and interpret results to determine required operational adjustments3.2 Rectify faults and causes according to operating procedures
	3.3 Manage out-of-specification product
4. Record and report troubleshooting and	4.1 Document variations from process and product specifications according to workplace requirements
rectification activities	4.2 Record and report diagnostic and corrective action processes to relevant personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret information from a range of documentation
Writing	 Provide comprehensive information about problems with equipment and products using clear language and industry terminology Provide clear unambiguous information about return to normal operations to system operators and other personnel
Oral communication	 Interpret basic numerical settings on instruments, gauges and data recording equipment Interpret system and product data Record detailed numerical data for system and product test results Use measuring equipment to measure and undertake calculations
Numeracy	 Interpret basic numerical settings on instruments, gauges and data recording equipment Interpret system and product data Record detailed numerical data for system and product test results Use measuring equipment to measure and undertake calculations

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
PPMWEO4XX Troubleshoot and rectify wet end systems	PPMWEO440 Troubleshoot and rectify wet end systems	Changes to elements, performance criteria, foundation skills, performance and knowledge evidence. Assessment conditions updated.	Equivalent

Links	Companion Volumes, including Implementation Guides, are available at VETNet:
	https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc- a69e-72a600d4fd93

TITLE	Assessment requirements for PPMWEO4XX Troubleshoot and rectify wet end systems
Performance Evidence	
An individual demonstrating co unit.	mpetency must satisfy all of the elements and performance criteria in this
least one of the following wet e requirements:	ne individual has carried out troubleshooting and rectification activities for at and system types, on at least two occasions according to operational
 stock approach systems forming system pressing systems 	
 cleaning and screening system 	stem.
 selected and used appropri quality faults 	ual must have, for each occasion: riate troubleshooting and testing methods to identify system and product
• identified and taken timely	rces of faults on system and associated processes corrective action to rectify and maximise safety, quality and productivity and worked safely with others when undertaking troubleshooting and
 completed accurate detaile processes on completion of 	ed records for system and product faults, diagnostic and corrective action of fault rectification activity.
Knowledge Evidence	
	emonstrate the knowledge required to perform the tasks outlined in the
	eria of this unit. This includes knowledge of:
troubleshooting and rectify	nealth and safety requirements and risk measures relevant to operating, ing wet end systems, including emergency procedures, handling chemical s, high risk load shifting, licensing requirements, plant clearance and permit
 environmental requirement manufacturer specification down and isolation procedure 	
 wet end plant, processes a plant layout theory of operation 	and associated services sufficient to troubleshoot including:
 causes and effects of a 	adjustments made to wet end plant and processes wet end plant, processes and associated services
	nat can be applied across system and problem faults in wet end systems
 sampling and testing processandards and procedures 	ess for plant and system operations, and process monitoring – purpose, as per site agreements use and handling requirements of chemicals used; erial Safety Data Sheets (MSDS) and Standard Operating Procedures
•	anned shutdown and appropriate responses
	s it applies to wet end plant and processes
 electronic and other control control wet end operations 	l systems, operation and application to make appropriate adjustments that
Assessment Conditions	
Assessment of the skills in this	unit of competency must take place under the following conditions:
accurately represents	•
 resources, equipment and fully automated, semi-a end process and related 	automated, manually operated plant and equipment appropriate to the wet

Assessment Conditions

- tools, equipment and materials used to troubleshoot and rectify wet end systems
- personal protective equipment required for troubleshooting wet end systems
- proforma or recording system for recording diagnostic and corrective action processes
- specifications:
 - workplace and standard operating procedures relating to troubleshooting and rectifying wet end systems including health and safety, environmental, risks and hazards identification, plant isolation and 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.

nes, including Implementation Guides, are available at VETNet: au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-