Modification history

Release	Comments
Release 2	This version released with PPM Pulp and Paper Manufacturing Training Package Version 2.0.
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 1.0.

PPMWPO440	Troubleshoot and rectify waste paper operations
Application	This unit of competency describes the skills and knowledge required to identify, diagnose and rectify waste paper operations, in a pulp or paper manufacturing facility.
	The unit applies to senior operators and production specialists who troubleshoot and rectify waste paper operations. This typically involves working in a facility with complex integrated equipment and continuous operations.
	No licensing, legislative or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Pulp and Paper Manufacturing (PPM)

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Identify and diagnose causes of process variation, plant or equipment faults	1.1 Check and plan work according to documentation and procedures, productivity requirements, workplace health and safety procedures, risks and hazards identification, environmental sustainability procedures and standard operating procedures (SOP)
	1.2 Interpret alarms to determine fault type and location in waste paper operations or equipment
	1.3 Interpret sampling and testing results to identify variations from specifications or schedule
	1.4 Identify and locate causes and sources of fault1.5 Access and interpret relevant sources of information to assist analysis1.6 Select, fit, use and maintain personal protective equipment according to
2. Rectify plant faults	job requirements and task to be undertaken 2.1 Conduct operator level on-line adjustments in accordance with work health and safety and SOP
	2.2 Shutdown plant and implement isolation procedures prior to fault rectification
	2.3 Isolate, by-pass, repair or replace faulty plant, according to organisational procedures
	2.4 Restore to normal operations and communicate verification to relevant personnel
3. Rectify product faults	3.1 Identify product faults or variations by observation, systematic sampling and testing
	3.2 Interpret test results and adjust operations to correct faults3.3 Rectify faults and causes or make recommendations for further action3.4 Manage out-of-specification production
4. Record and report system performance and	4.1 Document process variations and faults 4.2 Record stock production and machine operation faults
product quality data	 4.3 Record actions undertaken to troubleshoot and rectify faults 4.4 Communicate relevant information to appropriate 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	Read and interpret equipment specifications, work place documentation, and procedures	
Writing	 Record and report test results and rectifications accurately and legibly, using correct technical vocabulary 	
Oral communication	Use appropriate spoken communication strategies with work colleagues and other personnel on site, when troubleshooting and rectifying waste paper operations	
Numeracy	 Interpret instruments, gauges and data recording equipment Use measuring equipment and undertake calculations to aid troubleshooting 	
Navigate the world of work	 Access, navigate and enter computer-based information Use electronic and other control systems to control equipment and processes efficiently 	
Get the work done	 Maintain situational awareness in the work area Analyse and use sensory information to adjust process and to maintain and co-ordinate safety, quality and output 	

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMWPO440 Troubleshoot and rectify waste paper operations Release 2	PPMWPO440 Troubleshoot and rectify waste paper operations Release 1	Performance criteria added, minor changes to knowledge evidence	Equivalent unit

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

TITLE	Assessment requirements for PPMWPO440 Troubleshoot and rectify waste paper operations
Performance Evidence	
 unit. There must be evidence th carried out troubleshooting with required enterprise inte planned and safely diagnost faults taken timely corrective action used safety accessories into communication equipment 	mpetency must satisfy all of the elements and performance criteria in this nat the individual has: and rectification activities for waste paper operations, at least twice in line ervals, and undertake corrective action on equipment and product faults sed causes and sources of process variation, plant, equipment and product on to maximise safety, quality and productivity cluding protective and high visibility, safety clothing and electronic when working with waste paper operations through written and verbal means, the corrective actions undertaken.
Knowledge Evidence	
An individual must be able to de elements and performance crite • organisational procedures in • use of personal protect • equipment lock out and • handling chemicals and • plant clearance require • emergency procedures • job safety analysis doct • plant permit systems an • high risk load shifting lif • major hazard facility ref • waste paper operations inc • troubleshooting methods an • relevant documentation and • industry, including: • standard operating prof • productivity requirement • environmental sustaina • plant manufacturing op • enterprise policies and • safety data sheets • furnish and tally sheets • process and instrument • processes and associated a • plant layout • principles of process and • causes and effects of a • relationships between to the use of materials and su electricity, in waste paper of • the purpose, standards and plant and system operation • the purpose and operation • the impact of process varia • key features of maintenance	d isolation procedures d hazardous substances, including spill and disposal guidelines ments and responses umentation and processes nd processes censing requirements where relevant quirements where relevant luding pulping, screening, de-watering and reject systems pplicable to waste paper operations d procedures to troubleshoot waste paper operations in the pulp and paper cedures (SOP) nts and quality procedures ibility requirements and practices erating manuals and plant isolation documentation procedures and guidelines and process and instrument diagrams t diagrams services of waste paper operations, sufficient to troubleshoot, including: nd equipment operation idjustments made to waste paper handling plant and processes waste paper handling system, processes and associated services including waste paper, air, chemicals, broke, steam, water and procedures as per site agreement, of sampling and testing process for
to operate load shifting equ	

PPMWPO440 Troubleshoot and rectify waste paper operations **Knowledge Evidence** productivity requirements including energy efficiency, waste minimization, evaporation minimisation, landfill and waste water reduction, consideration of resource utilisation, fibre efficiency, minimising delays, chemical recovery maximisation, line speed, handovers and quality checks. Assessment Conditions Assessment of skills must take place under the following conditions: physical conditions: a workplace or a productive environment that accurately reflects performance in a workplace resources, equipment and materials: access to the full range of equipment involved in integrated continuous manufacturing of waste paper operations in a pulp or paper manufacturing facility maintenance tools and equipment and consumables for waste paper operations PPE suitable for inspecting and rectifying faulty waste paper equipment and product specifications: template documents for recording system and product faults, diagnostic and corrective action processes operating procedures for inspecting and rectifying faulty waste paper equipment and product sample workplace documentation, procedures and reports including SOP, quality procedures, environmental sustainability requirements/practices, plant manufacturing operating manuals, enterprise policies and procedures, oil or chemical spills and disposal guidelines, plant isolation documentation, safe work documentation organisational workplace health and safety and standard procedures for waste paper operations in a pulp or paper mill. 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.education.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-
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