

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.

PPMWEO320	Prepare and start up wet end operations
Application	<p>This unit of competency describes the skills and knowledge required to determine production requirements, prepare and establish startup wet end operations in the pulp and paper industry.</p> <p>The unit applies to production operators and technicians who prepare and start up wet end operations, in a pulp or paper manufacturing facility. This typically involves working in a facility with complex integrated equipment and continuous operations.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Pulp and Paper Manufacturing (PPM)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine production requirements	1.1 Confirm planned production requirements and communicate to relevant personnel 1.2 Confirm availability of machine supplies 1.3 Carry out tasks according to relevant documentation, productivity requirements, environmental sustainability procedures and workplace health and safety and standard operating procedures (SOP) including the correct use of personal protective equipment, risks and hazards identification and housekeeping requirements
2. Inspect and prepare systems for startup	2.1 Inspect systems for wet end operations 2.2 Remove isolations according to SOPs 2.3 Make and confirm operational settings 2.4 Complete pre-startup checks 2.5 Check monitoring devices and systems to confirm they are operational 2.6 Rectify identified faults or take appropriate actions 2.7 Confirm startup details and communicate to relevant personnel
3. Start up wet end operations	3.1 Activate systems for startup and confirm they are operational 3.2 Coordinate and implement equipment startups 3.3 Confirm systems functions by monitoring plant, equipment and controlling system and display monitors 3.4 Communicate process operation to relevant personnel 3.5 Document production startup details according to SOPs
4. Establish startup at wet end	4.1 Establish sheet at wet end 4.2 Monitor and adjust process, as required 4.3 Document system operation, production and quality data according to SOPs

Foundation Skills	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Read and interpret documentation, procedure manuals and reports
Writing	<ul style="list-style-type: none"> Log and record production startup and process details, accurately and legibly, using correct technical vocabulary Access, navigate and enter computer based information
Oral communication	<ul style="list-style-type: none"> Speak clearly and directly when working with colleagues in the wet area, in preparing and starting up operations
Numeracy	<ul style="list-style-type: none"> Monitor and interpret instruments, gauges and data recording equipment
Navigate the world of work	<ul style="list-style-type: none"> Use electronic and other control systems to control equipment and processes
Get the work done	<ul style="list-style-type: none"> Maintain situational awareness in the work area Analyse and use sensory information to adjust process to maintain and coordinate safety, quality and output

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
PPMWEO320 Prepare and start up wet end operations Release 2	PPMWEO320 Prepare and start up wet end operations Release 1	Minor changes to performance criteria and 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 PPMWEO320 - Prepare and start up wet end operations
--------------	--

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:

- prepared and started up wet end operations, at least twice in line with required enterprise intervals
- identified and actioned planned production requirements and followed workplace documentation and procedures
- undertaken inspections and pre-startup checks and confirming that materials, supplies, equipment and personnel are available
- activated startup systems and operations
- monitored and adjusted systems, through inspections and rectifying variations from specifications
- used and interpreted electronic control systems, including digital control system, touch screens or robotics to control equipment and processes during operations
- reported on operational data
- communicated effectively, through written and verbal means, in the work area.

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:

- organisational procedures relevant to workplace health and safety with particular emphasis on:
 - use of personal protective equipment (PPE)
 - equipment lock out and isolation procedures
 - handling chemicals and hazardous substances, including spill and disposal guidelines
 - plant clearance requirements
 - emergency procedures and responses
 - job safety analysis documentation and processes
 - plant permit systems and processes
 - high risk load shifting licensing requirements where relevant
 - major hazard facility requirements where relevant
- documentation and procedures relevant to wet end operations in the pulp and paper industry including:
 - standard operating procedures (SOP) and housekeeping
 - production instructions, productivity requirements and quality procedures
 - environmental sustainability requirements and practices
 - machinery and plant manufacturing operating manuals
 - enterprise policies and procedures
 - safety data sheets
 - maintenance logs, job sheets
 - site agreements
 - confined space requirements
 - site policy and procedures
 - maintenance logs, job sheets and operating logs
 - systems relating to wet end operations
- hazards and risks including steam and/or gas leaks, fires, nip points, compressed air, hot surfaces electrical, entanglement, vehicle movement, slip hazards and falls, energy, pressures, chemicals, fumes, dust and confined spaces and how to address them
- key features of systems in wet end operations including stock approach systems, forming system, pressing systems and cleaning and screening systems
- appropriate materials and supplies and their uses in wet end operations including water, air, stock, chemicals, additives, steam, machine clothing and baled pulp
- wet end plant, processes, and layout and associated services sufficient to carry out startup activities.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:

Assessment Conditions	
<ul style="list-style-type: none"> • a workplace or a productive environment that accurately reflects performance in a workplace • resources, equipment and materials: <ul style="list-style-type: none"> • access to the full range of equipment involved in integrated continuous manufacturing for starting up wet end operations in a pulp or paper manufacturing facility • PPE required for starting up wet end operations • specifications: <ul style="list-style-type: none"> • details of production requirements to plan system operations • template operating log for recording startup processes, operational and product quality data • sample workplace documentation, procedures and reports including SOP, environmental sustainability requirements or practices, plant manufacturing operating manuals, oil or chemical spills and disposal guidelines, plant isolation documentation, safe work documentation • organisational workplace health and safety and SOP for starting up wet end operations. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93