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.

PPMPUL320	Prepare and start up pulping system operations
Application	This unit of competency describes the skills and knowledge required to conduct pre-operational checks, bring pulping system operations online and stabilise system operations after startup.
	The unit applies to operators and technicians who prepare and start up pulping system operations in a pulp or paper manufacturing facility. This typically involves working in a facility with complex integrated equipment and continuous operations.
	No licensing, legislative, regulatory, 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. Determine production requirements	 1.1 Identify production requirements to plan and conduct system operations and startup processes in accordance with work health and safety and standard operating procedures (SOP) 1.2 Determine grade type and flow rate for production and communicate to
	pulping system operators
	1.3 Determine availability and coordinate process supplies and supply systems to meet production requirements
	1.4 Confirm readiness of downstream facilities to receive pulping process product and by-products
	1.5 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
2. Inspect and prepare	2.1 Conduct system inspections and pre-startup safety checks in line with
systems for startup	organisational safety and SOP 2.2 Remove isolations and establish and confirm operational settings to
	required specification
	2.3 Set delivery systems for operation
	2.4 Check monitoring devices and alarm systems and confirm as operational
	2.5 Detect deviations from operational specifications and rectify or report
Start up pulping	3.1 Activate and confirm pulping systems as operational
operations	3.2 Coordinate equipment startups for production
	3.3 Confirm production ready status to relevant personnel
4. Stabilise system	4.1 Monitor operational parameters after startup to ensure pulping system
operations	operations are within specification
	4.2 Sample and test pulp to verify product meets quality specifications
	4.3 Adjust system operational parameters to rectify variation from specifications
	4.4 Record system startup, operational and product quality data in operating log

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 workplace health and safety and SOP	
Writing	Complete accurate basic records for system startup processes and quality checks	
Oral communication	 Provide clear unambiguous information about production specifications and production ready status to pulping system operators and other personnel 	
Numeracy	 Interpret basic numerical settings on instruments, gauges and data recording equipment Monitor, assess and interpret system startup data 	
	 Record basic numerical data for system startup and operational performance 	
Get the work done	Use and assess sensory information (sight, sound, touch, smell, vibration, temperature) to adjust system operational parameters	

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
PPMPUL320 Prepare and start up pulping system operations Release 2	PPMPUL320 Prepare and start up pulping system 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 PPMPUL320 Prepare and start up pulping system operations	
Performance Evidence		
An individual demonstrating c	ompetency must satisfy all of the elements and performance criteria in this	
unit. There must be evidence		
 identified production requi 	rements and managed pulping system startup at least twice in line with	
required enterprise interva		
	ety checks for each of the above system startups	
 recorded system startup p 	processes and operational and product quality data in the operating log.	
Knowledge Evidence		
	demonstrate the knowledge required to perform the tasks outlined in the	
•	teria of this unit. This includes knowledge of: relevant to workplace health and safety with particular emphasis on:	
•	ctive equipment (PPE)	
	id isolation procedures	
	nd hazardous substances, including spill and disposal guidelines	
 plant clearance requir 		
 emergency procedure 		
0 11	cumentation and processes	
 plant permit systems a 	•	
	licensing requirements where relevant	
	censing requirements where relevant	
system layout for pulping	•	
	eration of pulping plant, operating parameters and allowable variations	
	of electronic and other control systems	
	ontrol points for starting up pulping systems:	
 pre-startup safety che 	cks	
 process control points 	in preparation stage	
 process control points 	in monitoring startup stage	
	s for sampling and testing product quality, plant and system operations and	
	n operational specifications	
	ifferent types of pulped product including:	
 bleached or unbleach 	ed pulp	
 fluff pulp 		
 crumbed pulp 		
 baled, rolled or sheet 	pulp	
 slushed pulp 		
	cess adjustments on product quality and productivity	
•	cess variation between upstream and downstream customers	
	dures (SOP) specific to starting up pulping systems	
communication reporting l		
recording and reporting st	artup processes, operational and product quality data.	
Assessment Condition	S	
Assessment of skills must tak	e place under the following conditions:	
 physical conditions: 	a place and of the following conditions.	
	uctive environment that accurately reflects performance in a workplace	
 resources, equipment and 		
	e of equipment involved in integrated continuous manufacturing of pulping	
operations in a pulp o		
	automated, manually operated plant and equipment appropriate to pulping	
systems and related of		
-	ding one or more of the following - power and steam systems, hydraulic and	

- pulping systems including one or more of the following power and steam systems, hydraulic and electrical systems or pneumatic systems PPE suitable for starting up pulping systems
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Assessment Conditions

- consumable materials including either pulp or chemicals
- specifications:
 - template operating log for recording startup processes, operational and product quality data
 - organisational workplace health and safety and SOP for starting up pulping systems

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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	a69e-72a600d4fd93