



Australian Government

PPMSPR320 Prepare and start up stock preparation system for production

Release: 2

PPMSPR320 Prepare and start up stock preparation system for production

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.

Application

This unit of competency describes the skills and knowledge required to conduct pre-operational checks, bring stock preparation system operations online and stabilise system operations after startup.

The unit applies to production operators and technicians who work in a pulp or paper manufacturing facility in the stock preparation area. 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.

Pre-requisite Unit

Nil

Unit Sector

Stock preparations operations (SPR)

Elements and Performance Criteria

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 Identify production requirements to plan system operations and startup processes 1.2 Determine grade type and flow rate for production and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	communicate to system operators 1.3 Determine availability and coordinate process supplies to meet production requirements 1.4 Confirm readiness of downstream facilities to receive 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 systems for startup	2.1 Conduct system inspections and pre-startup safety checks in line with workplace health and safety and standard operating procedures (SOP) 2.2 Remove isolations and establish and confirm operational settings to required specification 2.3 Check monitoring devices and alarm systems and confirm as operational 2.4 Detect deviations from operational specifications and rectify or report 2.5 Stage raw materials supplies ready for use
3. Start up stock preparation operations	3.1 Activate and confirm stock preparation systems as operational 3.2 Coordinate stock, chemical and water system startups for production 3.3 Confirm production ready status to relevant personnel
4. Stabilise system operations	4.1 Monitor operational parameters after startup to ensure stock system operations are within specification 4.2 Sample and test stock to verify product meets quality specifications 4.3 Adjust system operational parameters to rectify variations 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
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
Interact with others	Provide clear unambiguous information about production specifications and production ready status to system operators and other personnel
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
PPMSPR320 Prepare and start up stock preparation system for production Release 2	PPMSPR320 Prepare and start up stock preparation systems for production Release 1	Performance criteria added, minor changes to knowledge evidence	Equivalent unit

Links

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

Assessment Requirements for PPMSPR320 Prepare and start up stock preparation system for production

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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:

- identified production requirements and managed stock preparation system startup, at least twice in line with required enterprise intervals
- completed pre-startup safety checks
- recorded system startup processes and operational and product quality data in the operating log on completion of system startups.

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
- system layout for stock preparation systems
- purpose, features and operation of stock preparation system plant, operating parameters and allowable variations

- operation and application of electronic and other control systems
- key features and purpose of processes involved in starting up stock preparation systems including:
 - pre-startup safety checks
 - process control points in preparation stage
 - process control points in monitoring startup stage
 - purpose of, and processes for sampling and testing stock quality, plant and system operations and diagnosing deviations from operational specifications
 - quality requirements for different types of stock
 - effect of post startup process adjustments on stock quality and productivity
 - causes and effects of process variation between upstream and downstream customers
- organisational procedures:
 - standard operating procedures (SOP) specific to starting up stock preparation systems
 - communication reporting lines
 - recording and reporting startup processes, operational and product quality data.

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 stock preparation systems in a pulp or paper manufacturing facility
 - PPE suitable for starting up stock preparation systems
- specifications:
 - details of production requirements to plan system operations
 - template operating log for recording startup processes, operational and product quality data
 - organisational workplace health and safety and SOP for starting up stock preparation systems.

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

Links

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