



Australian Government

PPMRES301 Operate woodchip production system

Release: 1

PPMRES301 Operate woodchip production system

Modification History

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

Application

This unit of competency describes the skills and knowledge required to prepare for, operate and monitor systems for woodchip production.

The unit applies to production operators who perform woodchip production operations for a pulp and/or paper manufacturing facility and **respond to contingencies** that occur working 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

Primary Resource Operations (RES)

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. Prepare for woodchip production	1.1 Identify production requirements and specifications to plan system operations and processes 1.2 Identify workplace health and safety hazards, assess risks and determine control measures 1.3 Identify process control points according to production specifications 1.4 Confirm availability of material supplies and cleanliness of

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	transfer equipment 1.5 Select, fit and use personal protective equipment according to job requirements and task to be undertaken 1.6 Communicate production requirements and specifications, workplace health and safety and environmental requirements and operating procedures to relevant personnel
2. Inspect and start up system for production run	2.1 Carry out external inspection of woodchip and control systems 2.2 Remove isolations according to workplace health and safety and operating procedures 2.3 Carry out pre-start-up checks on equipment, conveyors, transfer system and operational monitoring equipment 2.4 Confirm that monitoring devices and alarm systems are operational 2.5 Identify logs to be processed and loaded according to production requirements 2.6 Handle transfer equipment, bins and hoppers to ensure prevention of chip contamination 2.7 Start up system production according to workplace health and safety and operation procedures 2.8 Dock logs according to production requirements
3. Monitor and maintain chipping system operation	3.1 Monitor logs and conveyors to achieve optimum operation flow 3.2 Co-ordinate and maintain supply of logs to ensure production requirements are met 3.3 Inspect and use electronic monitoring of operating equipment to ensure operating conditions are continually maintained 3.4 Identify potential blockage and jamming situations, and take appropriate action to rectify 3.5 Monitor woodchip quality to specifications 3.6 Monitor and maintain woodchip transfer to storage system 3.7 Monitor and maintain storage levels as required
4. Implement and monitor system shutdown	4.1 Coordinate and communicate planned shutdown of chipping system operations to relevant personnel 4.2 Shut down plant or system according to productivity, workplace health and safety and environmental requirements and operating

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	procedures 4.3 Monitor functionality of equipment during shutdown 4.4 Implement isolation requirements according to operating and housekeeping procedures
5. Respond to unplanned shutdown	5.1 Respond to unplanned faults and stoppages according to operating, emergency and workplace health and safety procedures 5.2 Complete shutdown and isolation according to operating procedures 5.3 Locate and rectify cause of unplanned shutdown within area of responsibility 5.4 Communicate shutdown information to relevant personnel
6. Record and report production information	6.1 Record production and quality data and system operation information according to workplace requirements 6.2 Report problems or variations with production, quality and system 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 workplace procedures and documentation
Writing	Complete records accurately and legibly using clear language and industry terminology
Oral communication	Provide information about start-up and shutdown operations, problems or variations with production, quality and system using clear language and industry terminology
Numeracy	- Interpret numerical settings on instruments, gauges and data recording equipment - Record numerical data for system and operational performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMRES301 Operate woodchip production system	PPMRES210 Prepare and operate the woodchip production system	Two elements added Changes to unit title, performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions updated	Not equivalent

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 PPMRES301 Operate woodchip production system

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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 planned for, coordinated, and safely started up and shut down a woodchip production system for at least two operational intervals, including for each operational interval:

- determined and monitored process control points
- monitored, assessed causes and adjusted systems to rectify variations from specifications and unplanned shutdown
- used and interpreted electronic control systems during operations
- applied hygiene and safe handling of equipment and materials
- recorded and reported accurate operational data
- communicated effectively and worked safely with others when undertaking woodchip production operations.

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:

- workplace and legislative health and safety requirements relevant to performing woodchip production operations, including emergency procedures, handling chemical and hazardous substances, high risk load shifting, licensing requirements, plant clearance and permit systems
- relevant workplace and legislative environmental sustainability requirements and practices for woodchip production operations, including workplace biotechnological applications and processes and biomass-derived products
- methods used to identify and manage hazards and risks that apply to woodchip production operations
- woodchip production systems and processes, plant layout and associated services relevant to carrying out start-up, stabilising and shutdown activities

- standard operating procedures specific to woodchip production operations
- types, uses and characteristics of raw materials to produce woodchip product, and how they influence paper properties
- quality requirements for different types of woodchip products
- purpose and processes for, sampling and testing product quality, plant and system operations
- methods used to monitor woodchip production system operations against specified system parameters
- effect of process adjustments on product quality and productivity during operation
- application of electronic and other control systems used to operate, control and make appropriate adjustments to woodchip production operations
- responses used for unplanned shutdowns, including those caused by power outage, mechanical breakdown, blockages, jamming, air supply and control system failure
- procedures for communicating, recording and reporting system operation, production outcomes and equipment faults.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a pulp and/or paper manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - woodchip production system and plant
 - maintenance tools and equipment and consumables for woodchip production plant
 - electronic control systems that include digital control system, touch screens or robotics used in woodchip production systems
 - materials and equipment used in woodchip production processes
 - personal protective equipment required for operating woodchip production systems
 - proforma or recording system for recording system and production data and information
- specifications:
 - workplace and standard operating procedures relating to woodchip production operations, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements
- 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.

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