



Australian Government

FWPCOT4221 Plan for and supervise log yard operations

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

Application

This unit of competency describes the skills and knowledge required to manage log yard operations. This involves planning according to schedules and performance indicators, supervising plant operations, managing log stock, monitoring and assessing log yard processes and identifying process improvement.

The unit applies to individuals who are engaged in the planning and supervision of log yard operations in the forest and wood products industry.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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. Plan log yard operations	1.1 Review log yard procedures, production requirements and confirm schedules, targets, specifications and performance indicators 1.2 Confirm workplace health and safety, quality and environmental protection practices and/or procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify hazards and associated risks and implement corrective actions according to workplace procedures 1.4 Inspect raw materials, identify possible production and quality implications and communicate variations to production methods to team members 1.5 Confirm legislation, standards and codes of practice relevant to log yard operations 1.6 Communicate schedule, targets, specifications and performance indicators to team members 1.7 Maintain communication with team members to ensure production schedule and workplace health and safety, environmental protection and quality requirements are met
2. Supervise log yard operations	2.1 Monitor workflow and operations and check that schedule, targets, performance indicators, environmental protection requirements and product specifications are met 2.2 Coordinate operation of plant involved in unloading and feeding logs into sawmill and the stacking, segregation and storage of logs to optimise workflow 2.3 Coordinate management of log stocks to avoid degradation, identify out-of-specification logs, confirm log grades against quality requirements and maintain inventory levels 2.4 Monitor log yard to identify operational problems, vehicle movements, in-flow management and raw material availability, and implement appropriate remedial actions 2.5 Monitor implementation of quality processes and chain of custody requirements 2.6 Evaluate effectiveness of operational processes at key points 2.7 Modify operational processes or schedules, as required, to ensure optimum performance 2.8 Monitor implementation of processes for reuse, recycling or disposal of sub-standard logs 2.9 Respond to breakdowns, disruptions to operations and unplanned events according to workplace procedures 2.10 Direct logs to storage or transfer for further processing
3. Oversee log yard maintenance and	3.1 Monitor implementation of routine log yard maintenance

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
inventory requirements	requirements 3.2 Maintain product and material inventory levels to meet production and contingency requirements
4. Evaluate log yard operations	4.1 Analyse data and observations on operations, faults, output and health and safety indicators to identify opportunities for process improvement 4.2 Report on production, health and safety, environmental protection and quality metrics to appropriate personnel according to workplace procedures 4.3 Seek comments and feedback from team members to identify opportunities for process improvement 4.4 Analyse feasibility of potential process improvements 4.5 Document process improvements and communicate to appropriate personnel according to workplace procedures

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 technical documents and workplace policies and procedures relevant to log yard operations
Writing	Complete workplace documents on routine and non-routine matters for a variety of audiences
Oral communication	Use appropriate vocabulary to communicate on technical and work team performance matters related to log yard operations
Numeracy	Analyse statistical data on production, quality, safety and environmental protection relevant to log yard operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT4221 Plan for and supervise log yard operations	FWPCOT4205 Coordinate log debarking operations	Unit redeveloped to increase its application and address a relevant skill or task that is required by industry	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT4221 Plan for and supervise log yard operations

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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 and supervised the operations of a log yard for two production cycles.

In performing this task, the individual has:

- communicated effectively and coordinated personnel to follow log yard planning, workplace procedures, including health and safety, environmental protection, quality and scheduling requirements
- complied with legislation, standards and codes of practice relevant to log yard operations
- monitored log yard operations against log yard schedule, targets, specifications and performance indicators and identified and rectified operational and equipment problems and faults
- monitored implementation of quality processes, including chain of custody requirements
- recorded and reported operations information, including output, quality, faults and safety data
- evaluated log yard operations and suggested one process improvement.

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:

- legislation, standards and codes of practice relevant to log yard operations
- hazards and associated risks with log yard operations, and risk control strategies identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- workplace procedures specific to planning and coordinating log yard operations, including:
 - health and safety, including use of personal protective equipment (PPE)

- environmental protection requirements and practices, including safe disposal of waste material
- quality assurance, including chain of custody requirements
- communication channels and protocols to communicate with team members
- recording and reporting information on output, quality, workplace health and safety and equipment faults
- types of log yards, including:
 - traditional mill log yards
 - concentration log yards
 - log reload yards
- purpose of log yards, including:
 - connect raw material supply to manufacturing processes
 - maintain log quality
- log yard layout
- log yard functions, including:
 - unloading/reloading
 - transport
 - debarking
 - grading
 - scaling
 - sorting
 - log storage
 - residue and waste management
- management of log stocks, including:
 - safely stacked and segregated
 - avoid degradation
 - identify out-of-specification logs
 - confirm log grades against quality requirements
 - maintain inventory levels
- role and responsibilities of log yard supervisor
- types, uses and operation of plant, machinery and equipment used in log yard operations
- log yard operational problems, including:
 - vehicle movement planning within log yard
 - empty trips
 - seasonality of raw material availability
 - log yard shape
 - in-flow management
 - poor surface material
- strategies to avoid log degradation, including:
 - plant and processing defects

- stock rotation
- stones
- barked
- debarked
- antiseptant treated
- methods for problem identification, including for equipment failures and bottlenecks in production process, and resolution strategies
- process improvement for log yard operations, including:
 - data
 - methods
 - participative approaches
 - communication.

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 timber processing plant, log yard plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - log yard and associated equipment
 - computers, keyboards, printers and software used to prepare planning and production documents
 - PPE relevant to log yard operations
- specifications:
 - log yard production schedule
 - templates for documenting relevant information on the log yard production and operations
 - workplace procedures for log yard operations
 - workplace health and safety and environmental policies and/or procedures applicable to log yard operations
- relationships:
 - work team for communicating requirements related to log yard operations.

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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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>