



Australian Government

FWPCOT3340 Develop knowledge of log yard operations

Release: 1

FWPCOT3340 Develop knowledge of log yard operations

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 identify the layout and workflow in a log yard and to confirm the procedures, equipment and safety requirements associated with log yard operations.

The unit applies to operational staff who are engaged in a range of work roles in 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. Determine log yard operations, layout and workflow	1.1 Identify type, purpose and nature of operations of log yard 1.2 Identify layout and materials flow within log yard 1.3 Identify role and responsibilities of log yard controller and other log yard team members

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Determine log yard equipment and systems 1.5 Identify log stack characteristics in relation to safety, efficiency and log rotation 1.6 Assess operational problems and factors that impact on materials flow in log yard 1.7 Assess safety, materials handling and environmental hazards associated with log yard operations
2. Confirm log yard procedures, equipment and safety requirements	2.1 Determine workplace procedures, equipment and safety requirements for unloading/reloading logs 2.2 Identify workplace procedures for estimating log weights and volumes 2.3 Determine workplace procedures and safety requirements for using a weighbridge to weigh trucks and determine and record gross, net and tare weight 2.4 Confirm workplace procedures for log grading and dealing with out-of-specification logs 2.5 Identify log yard hazards and workplace procedures, equipment and safety requirements for log sorting, segregation and storage procedures 2.6 Identify workplace procedures for safely disposing of log yard residue and waste 2.7 Identify workplace procedures for log yard recording and reporting requirements

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 routine workplace documents detailing workplace procedures relevant to log yard operations
Writing	Write basic notes using technical terms relevant to log yard operations

Skill	Description
Numeracy	• Use arithmetic skills to calculate weight, measurement and volume relevant to log yard operations • Interpret layout diagrams, site plans and associated dimensions relevant to log yard operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3340 Develop knowledge of log yard operations	FWPCOT3227 Receive and measure logs	The unit has been redeveloped to address a skill or task required by industry that is not covered by an existing unit	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 FWPCOT3340 Develop knowledge of 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:

- researched and documented layout and workflow in one log yard
- confirmed and compiled procedures, equipment information and safety requirements that apply to four different log yard operations selected from:
 - unloading/reloading
 - transport
 - grading
 - scaling
 - sorting
 - log storage
 - residue and waste management.

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:

- 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 operations, including:

- unloading/reloading
- transport
- grading
- scaling
- sorting
- log storage
- residue and waste management
- types, uses and operation of log yard equipment and systems, including:
 - front end loaders
 - log stackers
 - hydraulic log loaders
 - log sorting systems
 - weighbridges
 - sorting bunks
 - quality assurance systems
- characteristics of log stack, including:
 - label
 - length
 - diameter
 - grade
- influences of correct stacking on safety, efficiency and log rotation
- influences of movements and product being moved on log yard layout
- log yard operational problems, including:
 - vehicle movement planning within the log yard
 - empty trips
 - seasonality of raw material availability
 - log yard shape
 - in-flow management
 - poor surface material
- materials handling hazards and principles of safe materials handling in log yards, including:
 - reduce or eliminate unnecessary movements, and combine movements
 - increase the size and weight of quantity of material moved wherever possible
 - standardise types and sizes of equipment
 - use equipment that can perform multiple tasks unless specialized equipment is needed
 - select equipment to match all aspects of material and flow in the system
 - minimise the ratio of dead weight to total weight for all moves
 - maximise the load and minimise the distance on high-intensity moves
 - make low-intensity moves if long distances must be covered
 - pick up and set down whole load

- workplace procedures, equipment and safety requirements for log yard operations, including:
 - health and safety, with particular emphasis on identifying hazards and controlling associated risks in log yard operations
 - dealing with out-of-specification logs
 - documents that need to be completed in the log yard, including requirements for tracking and identifying stock in the log yard
- purpose, features and operation of electronic measuring equipment and weighbridges
- methods used to estimate log weights and volumes using formulas and data tables.

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 log yard or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - reference materials on log yard operations
 - internet access and computer software and hardware for accessing technical information on log yard operations
- specifications:
 - sample log yard site plans
 - sample workplace policies and procedures that cover current regulations and related industry standards and codes of practice applicable to safe work in 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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