



Australian Government

FWPWPP3212 Dry material

Release: 2

FWPWPP3212 Dry material

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 4.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit of competency describes the outcomes required to dry materials in a continuous operating single or multi pass dryer or flash dryer using either steam, heated air or gas.

The unit applies to production operators and technicians who dry material in a forest and wood products factory setting and includes operator maintenance.

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

Pre-requisite Unit

Nil

Unit Sector

Wood Panel Products

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 drying	1.1 Review work order and where required check with appropriate personnel. 1.2 Identify and obtain type and quantity of material for drying process. 1.3 Select appropriate personal protective equipment and check for operational effectiveness.

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 Plan drying process in line with work order.
2. Set up and operate equipment for drying material	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices. 2.2 Complete pre start-up equipment checks to ensure operational effectiveness, light furnace and monitor continually. 2.3 Follow emergency shutdown procedures in response to fire. 2.4 Set drying temperature, humidity and feed rate for optimal product recovery. 2.5 Position material and feed at rate appropriate to machine speed, capacity, treatment being dried, thickness and condition. 2.6 Assess material visually and measure moisture levels, ensuring outcomes in line with work order. 2.7 Coordinate out-feed to ensure efficient recovery of dried material. 2.8 Record and report on drying process to appropriate personnel.
3. Redistribute material	3.1 Regrade material in line with industry standards. 3.2 Direct material to storage or processing operations in line with organisational procedures. 3.3 Reject and dispose of defective material in line with environmental protection practices. 3.4 Clean work area in line with organisational safety procedures.
4. Complete operator maintenance	4.1 Follow organisational safety procedures to lock out equipment. 4.2 Check drying mechanisms for effective condition. 4.3 Check, and maintain oil levels, air filters, conveyors and chains in line with manufacturer's recommendations. 4.4 Keep machine clear of dust and debris in line with organisational safety procedures. 4.5 Record and report equipment faults and maintenance requirements to appropriate 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
Numeracy skills to:	- Identify quantities of required material within work orders and count amounts - Read basic dryer temperature settings; set and adjust levels according to drying requirements - Calculate the feed rate to optimise quality and quantity of production output - Complete routine measurements of material moisture levels.
Oral communication skills to:	Ask questions and actively listen to clarify contents of work orders.
Reading skills to:	- Interpret: - Workplace health and safety and other organisational procedures - Work orders - Manufacturers' instructions and maintenance recommendations.
Writing skills to:	Complete accurate basic records of process outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	Efficiently and logically sequence the stages of drying activities using work order to guide activities.
Problem-solving skills to:	- Identify and dispose of defective materials - Identify situations requiring emergency shutdown and respond immediately - Recognise faulty equipment and resolve by reporting or rectifying.
Technology skills to:	- Select and use appropriate personal protective equipment for dryer Operation and maintenance tasks - Safely and efficiently operate single or multi pass dryer or flash dryer.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
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FWPWPP3212 Dry material Release 2	FWPWPP3212 Dry material Release 1	Rectified error in Assessment Conditions	Equivalent
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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 FWPWPP3212 Dry material

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Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- operate a dryer to dry materials in line with individual work orders for each job prescribing different quantities; materials for drying include:
 - solid timber
 - flake
 - veneer
 - raw boards
 - laminated panels
 - veneered panels
 - plywood
- for each of the above jobs, direct materials to appropriate storage location or to downstream processing
- after each of the above jobs, complete operator maintenance on the dryer used.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- environmental protection practices for operating and maintaining dryers:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing defective materials
- purpose of drying materials
- characteristics of materials and effects of the drying process:

- solid timber
- flake
- veneer
- raw boards
- laminated panels
- veneered panels
- plywood
- methods used to visually assess condition of materials and measure moisture content after the drying process
- typical work flow processes and drying techniques
- typical flow of material supply in and out of the drying area
- purpose, features and operation of equipment used for drying materials:
- different types of dryers:
 - continuous operating single pass or multi pass dryer
 - flash dryer
- furnaces operated with steam, hot oil and gas
- different types of lifting equipment including:
 - fork lifts
 - slings
 - trolley jacks
 - gantry cranes
 - loaders
- methods used to maintain dryers
- moisture probes
- organisational procedures specific to drying materials:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting process outcomes, equipment faults and maintenance requirements.

Assessment Conditions

The following resources must be made available:

- one or more of the following types of dryer:
 - continuous operating single pass or multi pass dryer
 - flash dryer
- furnace operated with one or more of the following:
 - steam
 - hot oil
 - gas

- continuous conveyor belt system
- lifting equipment
- moisture probes
- maintenance tools and equipment
- personal protective equipment suitable for dryer operation and maintenance
- commercial material for drying which must include at least one of the following:
 - solid timber
 - flake
 - veneer
 - raw boards
 - laminated panels
 - veneered panels
 - plywood
- manufacturers':
 - instructions for equipment use
 - recommendations for maintaining equipment
- work order with specific instructions for the types and quantity of material to be dried
- template documents for recording process outcomes, equipment faults and maintenance requirements
- relevant personnel for the purposes of communicating information
- organisational procedures for drying materials.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

Links

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