



Australian Government

FWPWPP3216 Press material using the daylight process

Release: 1

FWPWPP3216 Press material using the daylight process

Modification History

Release	Comment
1	Replaces equivalent unit FPIWPP3216B Press material using the daylight process, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to operate a heat driven press system to compress chips, flakes or fibre using the daylight process.

The unit applies to production operators and technicians who press material using the daylight process in a forest and wood products factory setting and includes shutting down and cleaning equipment.

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

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for pressing	1.1 Review work order and where required check with appropriate personnel. 1.2 Select personal protective equipment and check for operational effectiveness. 1.3 Obtain type and quantity of chips, flakes or fibre for pressing. 1.4 Select pressing process in line with organisational procedures.

2. Press 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. 2.3 Set press cycle times, pressures, temperatures and product parameters for production requirements. 2.4 Monitor pressed material and adjust position, feed rate, mat and press conditions accordingly. 2.5 Complete unload and reload cycles in line with organisational procedures. 2.6 Assess pressed material and thickness changes regularly and adjust former and press set-up to produce quality formed materials. 2.7 Check pressed material production regularly to ensure conformity with size requirements and work order.
3. Unload material	3.1 Open press in line with organisational safety procedures. 3.2 Separate material and forming equipment and remove from press using unloading equipment. 3.3 Load material into cooling receiver, trim check and unload. 3.4 Test material samples to confirm compliance with industry standards and check for defects. 3.5 Dispose of sub-standard material in line with environmental protection practices. 3.6 Transfer finished material for further processing in line with organisational procedures.
4. Shut down and clean equipment	4.1 Coordinate shutdown with other line operators in line with organisational safety procedures. 4.2 Strip and clean blending, press and handling equipment in line with manufacturer's instructions and environmental protection practices. 4.3 Check and clean press bars or stops, plates and screens. 4.4 Keep machine clear of dust and debris in line with organisational safety procedures. 4.5 Record and report production outcomes and equipment faults to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	• identify quantities of required material within work orders and count amounts • read basic numerical machine settings to set temperature, pressure and cycle times • complete routine calculations to determine thickness of pressed materials and trim to specified dimension.
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.
Writing skills to:	• complete accurate basic records for production outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	• efficiently and logically sequence the stages of preparation and production using work order to guide activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FPIWPP3216B Press material using the daylight process

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for FWPWPP3216 Press material using the daylight process

Modification History

Release	Comment
1	Replaces equivalent unit FPIWPP3216B Press material using the daylight process, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement.

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:

- compress material using the daylight process in line with individual work orders that prescribe different quantities; types of materials for compression include:
 - chips
 - fibre
 - flakes
- assess formed material for moisture content, weight, thickness, density and defects and adjust forming cycle times, pressures and temperatures to produce quality outputs
- after each of the above jobs, complete operator maintenance to clean equipment.

Knowledge Evidence

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

- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste
- typical flow of material supply in and out of the pressing area
- typical work flow processes and processing techniques used to compress material using formers and a heat driven press system

- purpose, features and operation of equipment used to press material using the daylight process:
 - daylight process presses driven by steam pressure, including pneumatic or hydraulic loading and unloading equipment
 - pre-presses
 - formers
 - forming equipment:
- mats
- screens
- trays
- plates
 - press bars or stops
 - cooling receivers
 - blending equipment
 - trimming equipment
- appropriate cycle times, pressures and temperatures for the materials that can be compressed:
 - chips
 - fibre
 - flakes
- methods used to assess formed material for moisture content, weight, thickness, density and defects
- features of typical defects in formed materials:
 - surface blemishes
 - discolouration
 - natural timber defects
 - forming deformities
- methods used to strip and clean equipment
- organisational procedures specific to pressing material using the daylight process:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting production outcomes and equipment faults.

Assessment Conditions

The following resources must be made available:

- tools and equipment for pressing material using the daylight process which must include at least one of the following:
 - daylight process presses driven by steam pressure
 - pre-presses

- formers
- forming equipment which must include at least one of the following:
- mats
- screens
- trays
- plates
 - press bars or stops
 - cooling receivers
 - blending equipment
 - trimming equipment
- personal protective equipment suitable for pressing material using the daylight process
- commercial material to be compressed which must include at least one of the following:
 - chips
 - fibre
 - flakes
- manufacturers' instructions for use and cleaning of equipment
- work order with specific instructions for pressing material using the daylight process
- template documents for recording production outcomes and equipment faults
- relevant personnel for the purposes of communicating information
- organisational procedures for pressing material using the daylight process

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

Companion Volume implementation guides are found in VETNet -

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