



Australian Government

FWPWPP3227 Vacuum paint

Release: 1

FWPWPP3227 Vacuum paint

Modification History

Release	Comment
1	Replaces equivalent unit FPIWPP3227B Vacuum paint, 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 paint articles using a vacuum painting line with drying ovens and de-nibbing machines.

The unit applies to production technicians and operators who vacuum paint in a forest products factory setting.

Licensing, legislative, regulatory, or certification requirements apply to this unit in some states and territories at the time of publication, and may differ according to jurisdiction.

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 vacuum painting process.	1.1 Work order is reviewed and checked with appropriate personnel. 1.2 Identify and follow safe work procedure for vacuum painting. 1.3 Acquire type and quantity of articles to be vacuum painted from storage location. 1.4 Check equipment for operational effectiveness in line with manufacturer's recommendations and site requirements. 1.5 Plan and select vacuum painting process, feed rates and paint in

	line with site procedures. 1.6 Load paint products in equipment in line with manufacturer's specifications and safe work procedure. 1.7 Manufacture and fit paint templates according to manufacturer's specifications and safe work procedure. 1.8 Communicate with relevant personnel as required, to ensure safety and production requirements are met.
2. Vacuum paint.	2.1 Operate vacuum paint coater in line with recipes and manufacturer's recommendations. 2.2 Apply paint and continuously monitor and adjust flow rates and viscosity in line with site requirements. 2.3 Continuously monitor paint operations and wet film thickness, clearing blockages and filters to maintain paint coverage to specifications. 2.4 Regularly check products for surface quality and contamination in line with site requirements and take corrective action. 2.5 Remove sub-standard painted items from painting process and review for further action. 2.6 Calibrate test equipment and regularly test samples of paint.
3. Operate drying oven.	3.1 Start ovens and bring to operating temperature in line with manufacturer's specifications. 3.2 Monitor oven drying processes in line with standard operating procedures. 3.3 Reject and dispose of products with oven drying defects in line with site procedures and environmental requirements. 3.4 Adjust drying operations in response to paint adhesion test results.
4. Operate de-nibber.	4.1 Set up and start de-nibbing machine in line with manufacturer's recommendations. 4.2 Select and install profile flap brushes. 4.3 Process and assess sample strips. 4.4 Reject and dispose of products with de-nibber defects in line with site procedures and environmental requirements. 4.5 Adjust de-nibbing process in line with sample results. 4.6 Operate and monitor de-nibbing machine in line with standard operating procedures. 4.7 Investigate and resolve routine de-nibbing problems.

5. Shut down and clean equipment and record information.	5.1 Shut down equipment in coordination with other line operators and site procedures. 5.2 Turn off vacuum coater, dryer and de-nibber and flush equipment in line with standard operating procedures. 5.3 Dispose of excess paint and flushing liquid in line with statutory requirements and environmental regulations. 5.4 Store equipment and paint in line with statutory requirements and environmental regulations. 5.5 Record and report processing and equipment faults to appropriate personnel.
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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:	- enter numerical data when setting machinery - measure paint quantities - measure paint template dimensions - calculate paint flow rates and viscosity - set and adjust oven temperatures
Reading skills to:	- monitor dials and gauges - read log sheet information
Writing skills to:	- complete log sheet information (manually or electronically) - record pre-start inspection information
Problem solving skills to:	respond to faults and problems throughout the vacuum paint process.

Range of Conditions

Not Applicable

Unit Mapping Information

FWPWPP3227B Vacuum paint.

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 FWPWPP3227 Vacuum paint

Modification History

Release	Comment
1	Replaces equivalent unit FPIWPP3227B Vacuum paint, 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:

- identify hazards and control risk in the work area
- set up vacuum painting process
- set parameters on equipment
- load paint products
- manufacture and fit paint templates
- operate vacuum paint coater and maintain paint coverage according to work order specifications
- adjust paint flow rates and viscosity
- clear vacuum paint blockages and filters
- calibrate test equipment and test samples of paint throughout the vacuum paint process
- operate, monitor and adjust drying oven according to standard operating procedure
- set up and operate de-nibbing machine
- install profile flap brushes in de-nibbing machine
- identify, remove and dispose of defective products during the vacuum painting, oven drying and de-nibbing process
- shut down and clean vacuum paint coater, drying oven and de-nibbing machine according to standard operating procedure
- shut-down and flush equipment
- store materials and equipment and dispose of waste according to statutory and environmental protection requirements.

Knowledge Evidence

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

- safe work procedures relevant to the set-up, operation, shut-down and cleaning of vacuum painting, oven drying and de-nibbing equipment
- procedures for hazard identification and risk control during the entire vacuum painting process including:
- paints, their viscosity, film thickness, film wetness and feed rates
- procedures for the safe handling, use and storage of paints including their safety data sheets (SDS)
- procedures for clearing blockages and cleaning filters during the vacuum paint process
- procedures for safe disposal of waste materials according to environmental protection requirements
- workplace storage and labelling systems used to support the vacuum painting process
- workplace communication channels and protocols used to communicate with relevant personnel
- procedures for sample testing and calibration of sample testing equipment
- paint recipes and how they are applied in the vacuum paint process
- procedures for identifying product contamination and defects including:
- dust, water spots, oil spots from equipment or oily finger prints
- orange peel effect
- incomplete cover
- solvent boil
- procedures for equipment lock-out
- procedures for identifying, recording and reporting vacuum painting process and equipment fault information
- procedures for emergency response (accident, fire, serious equipment fault).

Assessment Conditions

The following resources must be made available:

- work order
- articles to be vacuum painted
- storage location
- personal protective equipment required to vacuum paint
- vacuum painting chamber
- drying oven
- de-nibber together with continuous roller conveyors
- paint suitable for vacuum coating
- paint templates
- vacuum paint recipes
- relevant personnel for the purposes of communicating information
- established recording and reporting mechanisms (manual or computer-based log book)

- sample safe work procedures for:
 - vacuum painting, drying and de-nibbing process
 - testing samples
 - cleaning machinery
 - manufacturer's equipment guidebook

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