



Australian Government

FWPTMM3218 Develop knowledge of veneer preparation in plywood or laminated veneer lumber production

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 develop a current understanding of the application and production processes involved in constructional veneer production for plywood or laminated veneer lumber (LVL) manufacture.

The unit applies to individuals who are engaged in a range of operational roles in plywood and LVL production.

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

Timber Manufactured Products (TMM)

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 criteria for selecting peeler logs and end uses of rotary peeled veneers	1.1 Identify different categories of veneer products 1.2 Identify timber species and characteristics of peeler logs used in constructional veneer production

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 criteria used to assign a value to peeler logs 1.4 Assess advantages of veneer-based products compared to solid wood products 1.5 Identify uses of rotary peeled veneers
2. Research constructional veneer production process	2.1 Identify the workflow in constructional veneer production 2.2 Identify legislation, standards and codes of practice relevant to veneer preparation in plywood or LVL production 2.3 Investigate processes involved in constructional veneer production 2.4 Identify quality checks conducted during constructional veneer production 2.5 Assess factors that impact on quality and workflow in constructional veneer production 2.6 Assess safety and environmental hazards associated with constructional veneer production
3. Investigate log preparation and conditioning processes used in constructional veneer manufacturing	3.1 Identify impact of wood and log characteristics on veneer production 3.2 Identify adverse effects of log storage on veneer production, and remedial actions that can be implemented 3.3 Assess log characteristics that impact on debarking 3.4 Assess billet properties that impact on lathe yield 3.5 Identify causes of high roughness, short veneer and distortion in veneer that relate to billet properties 3.6 Investigate log conditioning process and advantages and disadvantages of log conditioning 3.7 Identify actions to prevent the adverse effects of log conditioning on veneer manufacture
4. Investigate rotary peeling process in constructional veneer production	4.1 Identify types, features, operating principles and safety requirements for lathes used in rotary peeling 4.2 Identify impact of nose bar set-up and adjustment on veneer quality 4.3 Identify common problems in the rotary spinning process, and appropriate corrective actions 4.4 Identify the cause of veneer peeling defects

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.5 Assess effects of wood properties on veneer quality
5. Research green veneer processing in constructional veneer production	5.1 Identify characteristics of green veneer 5.2 Identify factors that impact on clipper speed and clipped veneer quality 5.3 Investigate stages in green veneer processing 5.4 Assess common problems in scarfing process, and appropriate corrective actions 5.5 Assess common composer quality problems and appropriate corrective actions
6. Research constructional veneer drying process	6.1 Identify purpose of veneer drying 6.2 Investigate stages in veneer drying 6.3 Assess moisture gradients and their impacts on veneer quality 6.4 Assess common defects resulting from veneer drying, and methods to reduce or eliminate these defects 6.5 Assess common operational problems in veneer drying, and appropriate corrective actions
7. Assess constructional veneer grading processes	7.1 Identify reasons for grading veneer sheets 7.2 Research grading criteria and grade classes for veneer in Australian Standards 7.3 Distinguish between visual grading and automatic grading 7.4 Assess common defects affecting veneer grade 7.5 Assess operating principles of automatic veneer strength, moisture and appearance grading systems

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 basic industry reference materials on constructional

Skill	Description
	veneer manufacture
Writing	Write basic notes using technical terms relevant to constructional veneer manufacture
Oral communication	Use questioning skills to gather information related to constructional veneer manufacture
Numeracy	Interpret measurements displayed on moisture gradient meter

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM3218 Develop knowledge of veneer preparation in plywood or laminated veneer lumber production	FWPWPP3231 Produce veneer from prepared flitches	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>