



Australian Government

Assessment Requirements for FWPTMM3217 Develop knowledge of plywood or laminated veneer lumber production

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

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 either plywood or laminated veneer lumber (LVL) production and documented:

- legislation, standards and codes of practice relevant to plywood or LVL production
- timber species and characteristics of logs used in plywood or LVL production
- two different end applications of either plywood or LVL products
- workflow in plywood or LVL production
- production processes for either plywood or LVL production
- one factor that may impact on quality and workflow in plywood or LVL production
- properties and one potential hazard of one adhesive product used in plywood or LVL production
- one type of adhesive application system used in plywood or LVL production.

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 and uses of plywood or LVL, including:
 - structural plywood
 - concrete formwork plywood
 - marine plywood
 - non-structural interior and exterior plywood
- key requirements of legislation, standards and codes of practice relevant to plywood or LVL production
- timber species used in plywood or LVL production, including:
 - softwood – radiata pine, hoop pine, slash pine
 - hardwood – eucalypt

- physical and mechanical properties of LVL or plywood, including:
 - cross lamination
 - dimensional stability
 - thermal properties
 - acoustic properties
 - electrical properties
 - chemical resistance
 - workability and bending ratio
 - plywood density
- end applications of plywood or LVL in building and construction, including:
 - plywood – panel product
 - LVL – framing member
- characteristics of logs from suitable timber species selected for use in plywood or LVL production, including:
 - size
 - straightness
 - nature and quantity of defects
- plywood or LVL production process, including:
 - log storage
 - log debarking and bucking
 - conditioning
 - peeling
 - drying
 - grading
 - layup and bonding
 - pressing
 - sanding, trimming and branding
- main differences in the manufacturing process for plywood and LVL, including:
 - grading stage
 - lay-up stage
 - pressing stage
- quality checks conducted during plywood or LVL production
- factors impacting on quality and workflow in plywood or LVL production, including:
 - availability of suitable timber species and quality
 - veneer quality
 - adhesives
 - bonding
 - operational, supervisory and management skills
 - access to and maintenance of plant and equipment
- safety and environmental hazards associated with plywood or LVL production

- types, properties, uses and hazards of adhesives specified in Australian Standards for plywood or LVL production, including:
 - Type A bonds – produced from phenol formaldehyde (PF) resin
 - Type B bonds – produced from melamine fortified urea formaldehyde resin (MUF)
 - Type C and D bonds – produced from urea formaldehyde resin (UF)
- factors that impact on the bonding of wood with adhesives used in plywood or LVL production
- types and uses of adhesive application systems, including:
 - hard rolls
 - air curtain
 - spray
 - extrusion.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- resources, equipment and materials:
 - reference materials on plywood or LVL production processes and adhesives and adhesive application systems used in plywood or LVL production
 - internet access and computer software and hardware for accessing technical information on plywood or LVL production
- specifications:
 - Australian Standards relevant to plywood or LVL production.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>