



Australian Government

Assessment Requirements for FWPWPP3219 Blend and test binding mixes

Release: 2

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Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 4.0.
Release 1	This version replaces equivalent unit FPIWPP3219B Blend and test binding mixes, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2.

Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit. There must be evidence that, on at least one occasion, the individual has:

- followed workplace health and safety requirements and environmental protection procedures for blending binding mix used in the production of engineered wood panels
- prepared binding mixes for one or more of the following types of materials according to individual work orders that prescribe varying quantities of ingredients:
 - chips
 - flakes
 - fibre
- demonstrated use of water- and resin-based glues
- taken samples and test mix for types of properties that include:
 - mix quantities
 - viscosity
 - colour
 - spread
 - tack
 - cured bond strength
 - setting speed
 - how weather conditions may be affecting the process.

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:

- health and safety hazards or risks related to blending binding mix for the production of engineered wood products as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- workplace procedures specific to blending and testing mixes:
 - health and safety, with particular emphasis on equipment lockout, emergency procedures, use of personal protective equipment (PPE) and handling hazardous substances according to safety data sheets
 - use of equipment for blending binding mix
 - communication reporting lines
 - recording and reporting production outcomes and equipment faults
- environmental protection practices for blending and testing binding mixes:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of hazardous substances
- storage layout and categories for:
 - raw materials
 - finished mixes
- typical flow of material supply in and out of the mixing area
- typical workflow processes for blending and testing binding mixes
- properties, at a basic level of understanding, of ingredients and their uses:
 - rubber-based adhesives
 - polyvinyl acetate
 - epoxy resins and formaldehydes
 - chips
 - flakes or fibre
 - hardeners
 - softeners
 - accelerants
 - decelerators
 - dyes
- effects of weather conditions on blending processes
- methods used to:
 - blend binding mix
 - test samples of the mix
 - safely store glue and additives
- purpose, features, operation and basic non-specialist maintenance of mixing systems used to blend binding mix:

- mixers with manually controlled feed
- mixers with pre-programmed mix quantities.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - blending system with transfer pumps
 - personal protective equipment suitable for blending and testing mixes
 - ingredients for binding mix including chips, flakes or fibre
- specifications:
 - recipes for mixing ingredients
 - manufacturer safety data sheets, instructions for equipment use and recommendations for maintaining equipment
 - work order with specific instructions for blending binding mixes
 - template documents for recording production outcomes and equipment faults
 - workplace procedures for blending and testing mixes, including health and safety and emergency procedures and environmental protection procedures.

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>