



Australian Government

Assessment Requirements for FWPCOT3338 Identify glues and gluing systems used in production of wood products

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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 glues and gluing systems used in production of wood products and documented the following:

- properties and applications of two glues selected from the following different types of glues:
 - synthetic or animal-based adhesives
 - rubber-based adhesives
 - polyvinyl acetate
 - epoxy resins
 - formaldehydes – resorcinol formaldehyde (RF), phenol resorcinol formaldehyde (PRF), melamine urea formaldehyde (MUF)
 - polyurethanes
- functions, components, operating parameters and processing capacity of one semi-automatic or one automatic system for dosing, mixing and applying glues that is used in the production of wood products
- legislation, standards and codes of practice relevant to gluing operations
- glue testing procedure used for checking one of the following features of one type of glue:
 - mix quantities
 - setting speed
 - how weather conditions may be affecting the process
- likely cause of one adhesion failure.

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, properties, preparation and applications, at a basic level of understanding, of glues used in production of wood products, including:
 - synthetic or animal-based adhesives
 - rubber-based adhesives
 - polyvinyl acetate
 - epoxy resins
 - formaldehydes – RF, PRF, MUF
 - polyurethanes
- key requirements of legislation, standards and codes of practice relevant to gluing operations
- exposure categories of glue types – internal, exterior protected, exterior exposed
- commercial product names of glue types used in production of wood products
- safe practices for handling, transporting, storing and disposing of glue, glue waste and containers
- shelf-life of glues used in production of wood products, including:
 - factors that influence shelf-life of glues – temperature, humidity, type of glue, viscosity, mix time, excessive hardener
 - work practices that maximise shelf-life – stock rotation, temperature control, and airtight containers
- factors that influence glue application and bonding in the production of wood products, including:
 - shelf-life
 - storage temperature
 - accurate measurement of ingredients
 - accurate mixing
 - correct glue spread
 - correct open assembly time
- glue ingredient specifications for the production of wood products
- health and safety hazards or risks related to glues and additives used in the production of wood products, as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- methods used in the production of wood products to:
 - test samples
 - safely store glues
- types, functions, components, accessories and capacity of semi-automatic and automatic systems used in the production of wood products for dosing, mixing and applying glues
- sources of information on systems for dosing, mixing and applying glues
- reasons for using glue dosing, mixing and application systems in the production of wood products, including:
 - speed
 - controlling accuracy
 - consistency of product dimensions

- reducing mechanical injury
- causes of adhesion failure in the production of wood products.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated in a timber processing plant, a timber product manufacturing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - internet access and computer software and hardware for accessing technical information on glues and gluing systems used in the production of wood products
- specifications:
 - legislation, standards and codes of practice relevant to wood products gluing operations
 - industry guides and standard references on glues and gluing systems used in the production of wood products.

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>