



**Australian Government**

# **FWPCOT3288 Set up, operate and maintain finger jointing machines**

**Release: 1**

# FWPCOT3288 Set up, operate and maintain finger jointing machines

## Modification History

| Release   | Comments                                                                              |
|-----------|---------------------------------------------------------------------------------------|
| Release 1 | This version released with FWP Forest and Wood Products Training Package Version 5.0. |

## Application

This unit of competency describes the skills and knowledge required to coordinate finger jointing operations, including planning schedules for operators, setting up equipment for production runs, resolving processing problems and coordinating equipment shut-down and maintenance.

The unit applies to individuals who coordinate the production of finger jointed timber in a timber processing or manufacturing facility.

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

Common Technical (COT)

## 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. Establish finger jointing schedule            | 1.1 Access data in production orders on grades, quantities, cross-sections and end use to plan finger jointing schedule<br>1.2 Develop and document finger jointing schedule to ensure optimum |

| Elements                                           | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>   | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                    | production outcomes<br>1.3 Communicate finger jointing schedule to operators according to workplace procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2. Prepare for finger jointing operations          | 2.1 Review work order and specifications, and check with appropriate personnel as required<br>2.2 Review workplace health and safety procedures, including the use of personal protective equipment, equipment lock-out and safe manual handling techniques<br>2.3 Identify, assess and take actions to mitigate risks and hazards associated with operating finger jointing machines<br>2.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency                                                                                                                                                                                                                                                               |
| 3. Set up finger jointing machine and operations   | 3.1 Check finger jointing machine and equipment for safety and operational effectiveness, and adjust set-up to meet production requirements<br>3.2 Select, check and prepare cutters to suit finger profile and timber cross-sections<br>3.3 Set feed rates, guides, conveyors, glue spreader and curing controls to satisfy finger profile, timber cross-section characteristics and glue requirements<br>3.4 Cut trial timber joints and check finger profiles against specifications<br>3.5 Machine trial cleat and join and test for strength and appearance<br>3.6 Accept or reject trialled timber and dispose of waste according to environmental protection practices<br>3.7 Resolve any machining problems and make final adjustments to equipment set-up according to workplace procedures and production requirements |
| 4. Start up and monitor finger jointing operations | 4.1 Start up finger jointing machine and process in conjunction with operators according to workplace procedures and manufacturer specifications<br>4.2 Monitor finger jointing operation to ensure safety, product quality and output<br>4.3 Identify routine processing and equipment faults, and resolve or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                  |
|                                                  | report to appropriate personnel according to workplace procedures<br>4.4 Record and report production outcomes according to workplace procedures                                                                                                                                                                                                        |
| 5. Coordinate shut-down and maintenance          | 5.1 Coordinate finger jointing machine and equipment shut-down with operators according to workplace safety procedures<br>5.2 Assist maintenance personnel to identify and resolve equipment faults<br>5.3 Plan and coordinate routine maintenance of finger jointing machine and equipment according to workplace procedures and maintenance schedules |

## 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                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Numeracy                   | <ul style="list-style-type: none"> <li>Performs routine arithmetic calculations to establish timber quantities required for production orders</li> <li>Uses standard units of measurement to determine the dimension and profiles of trialled timber and comparison with specifications and allowable tolerances</li> </ul> |
| Navigate the world of work | <ul style="list-style-type: none"> <li>Understands main tasks, responsibilities and boundaries of own role</li> </ul>                                                                                                                                                                                                       |
| Interact with others       | <ul style="list-style-type: none"> <li>Uses modes of communication suitable to purpose to confirm and clarify understanding</li> </ul>                                                                                                                                                                                      |
| Get the work done          | <ul style="list-style-type: none"> <li>Recognises and responds to routine problems</li> </ul>                                                                                                                                                                                                                               |

## Unit Mapping Information

| Code and title | Code and title | Comments | Equivalence status |
|----------------|----------------|----------|--------------------|
|----------------|----------------|----------|--------------------|

| current version                                                     | previous version                                                   |                                                                     |                 |
|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------|
| FWPCOT3288<br>Set up, operate and maintain finger jointing machines | FWPCOT3207 Set up, operate and maintain finger jointing operations | Minor edits; updated unit code and title for clarity and compliance | Equivalent unit |

## Links

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

# Assessment Requirements for FWPCOT3288 Set up, operate and maintain finger jointing machines

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## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has:

- set up finger jointing machine and equipment, trialled equipment settings and tested trialled material for strength and appearance
- coordinated the start-up of finger jointing machine and equipment
- monitored finger jointing operation during a production run
- coordinated the shut-down of finger jointing equipment
- in doing the above job, the individual has:
  - followed workplace health and safety requirements during the finger jointing operation
  - developed and documented a finger jointing schedule
  - communicated the finger jointing schedule to operators
  - identified and responded to processing and equipment faults
  - completed production reports
  - carried out routine maintenance of finger jointing equipment.

## 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:

- operational capacity of finger jointing machine and equipment
- workflow processes for finger jointing operations
- methods of determining finger jointing schedules to maximise equipment, labour and material use
- format, content and use of finger jointing schedules
- monitoring processes for jointing machines and overall production process
- typical processing and equipment faults and solutions for minimal production disruption
- industry standard cross-sections, their strength, tolerances and applicable terminology

- purpose, features, operation and maintenance requirements of automated finger jointing equipment:
  - finger jointing machine stations and equipment
  - safety features
  - glue spreader
  - conveyors
- types of risk and hazards and mitigation measures associated with finger jointing operations
- workplace policies and procedures specific to finger jointing operations:
  - health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and safe manual handling techniques
  - use of finger jointing machine and equipment
  - communication reporting lines
  - recording and reporting finger jointing schedules, production outcomes and maintenance schedules, equipment faults and maintenance requirements
- environmental protection practices for timber processing and manufacturing facilities:
  - reducing water and energy use
  - cleaning plant, tools and equipment
  - disposing of, recycling and reusing timber and other waste.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a timber processing or manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - computers, keyboards, printers and software used to prepare finger jointing schedules and maintenance documents
  - automated finger jointing machine and equipment
  - consumable glue and cutters
  - PPE suitable for finger jointing operations
  - timber for finger jointing operations
- specifications:
  - production orders with workplace information about grades, quantities and cross-sections for specified finger jointed timber products
  - template documents for recording finger jointing schedules, production outcomes, and maintenance schedules for finger jointing equipment
  - workplace procedures for finger jointing operations.

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

## Links

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