Modification history

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| Release | Comments |
| Release 2 | This version released with FWP Forest and Wood Products Training Package Version 5.0. |

| FWPCOT3xxx | Set up, operate and maintain finger jointing machines |
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| 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 shutdown 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 occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil  |
| Unit Sector | Common TechnicalTimber Manufactured ProductsSawmilling and Processing |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Establish finger jointing schedule  | 1.1 Access data in production orders on grades, quantities, cross sections and end use to plan finger jointing schedule1.2 Develop and document finger jointing schedule to ensure optimum production outcomes 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 check with appropriate personnel as required2.2 Review environmental protection processes and workplace health and safety requirements including the use of personal protective equipment, equipment lockout and equipment and safe manual handling techniques2.3 Identify, assess and report hazards and use personal protective equipment according to workplace requirements and health and safety legislation to maintain safe work practices |
| 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 requirements3.2 Select, check and prepare cutters to suit finger profile and timber cross sections 3.3 Set feed rates, guides, conveyors, glue spreader and curing controls to satisfy finger profile, timber cross-section characteristics and glue requirements3.4 Cut trial timber joints and check finger profiles against specifications3.5 Machine trial cleat and join and test for strength and appearance3.6 Accept or reject trialled timber and dispose of waste according to environmental protection practices3.7 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 specifications4.2 Monitor finger jointing operation to ensure safety, product quality and output 4.3 Identify routine processing and equipment faults and resolve or report to appropriate personnel according to workplace procedures4.4 Record and report production outcomes according to workplace procedures |
| 5. Coordinate shutdown and maintenance | 5.1 Coordinate finger jointing machine and equipment shutdown with operators according to workplace safety procedures5.2 Assist maintenance personnel to identify and resolve equipment faults5.3 Plan and coordinate routine maintenance of finger jointing machine and equipment according to workplace procedures and maintenance schedules |

| Foundation SkillsThis 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. |
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| Skill | Description |
| Numeracy | * Perform routine arithmetic calculations to establish timber quantities required for production orders
* Use standard units of measurements to determine the dimension and profiles of trialled timber and comparison with specifications and allowable tolerances
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| Navigate the world of work | * Understand main tasks, responsibilities and boundaries of own role
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| Interact with others | * Use modes of communication suitable to purpose to confirm and clarify understanding
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| Get the work done | * Recognise and respond to routine problems
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPCOT3XXX 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 |

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

| TITLE | Assessment requirements for FWPCOT3XXX Set up, operate and maintain finger jointing machines |
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| Performance Evidence |
| An individual demonstrating competency must satisfy all the elements and performance criteria in this unit. There must be evidence that, on at least one occasion, the individual has:* followed workplace health and safety requirements during the finger jointing operation
* used data in production orders to plan a finger jointing schedule
* developed and documented a finger jointing schedule
* communicated the finger jointing schedule to operators
* 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
* identified and responded to processing and equipment faults
* completed production reports
* coordinated the shutdown of finger jointing equipment
* carried out routine maintenance of finger jointing equipment.
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| Knowledge Evidence |
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| 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 lockout, use of personal protective equipment (PPE), 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.
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| Assessment Conditions |
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| 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 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. |

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