



Australian Government

FWPCOT3275 Set up, operate and maintain end matching machines

Release: 1

FWPCOT3275 Set up, operate and maintain end matching 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 operational logistics for end matching activities that include 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 set up, operate and maintain end matching operations 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. Prepare for end matching operations	1.1 Review production orders for grades, quantities of timber requiring rework, cross-sections and end use 1.2 Review workplace health and safety procedures, including the use

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	of personal protective equipment, equipment lock-out and safe manual handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards associated with operating end matching machines 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment and maximising energy efficiency 1.5 Plan end matching operations according to production requirements and workplace procedures 1.6 Develop end matching schedule to ensure optimum production outcomes and maximise equipment, labour and material use 1.7 Communicate end matching schedule to operators according to workplace procedures
2. Set up end matching machine and operation	2.1 Check end matching machine and equipment for operational effectiveness and adjust set-up to meet production requirements 2.2 Select, check, prepare and install cutters to suit end profile and timber cross-section 2.3 Set feed rates, guides and conveyors to suit timber cross-section and characteristics 2.4 Cut trial timber joints and check end profiles against specifications 2.5 Join trial timber boards and test for strength and appearance 2.6 Accept or reject trialled timber and dispose of waste according to environmental protection practices 2.7 Resolve any machining problems and make final adjustments to equipment set-up according to workplace procedures and production requirements
3. Start up and monitor end matching operation	3.1 Start up end matching machine and process in conjunction with operators according to workplace procedures and manufacturer specifications 3.2 Monitor end matching process and production output and quality 3.3 Identify routine equipment and processing problems, and resolve or report to appropriate personnel according to workplace procedures 3.4 Record and report production outcomes according to workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Coordinate machine shut-down and maintenance	4.1 Coordinate end matching machine and equipment shut-down with operators according to workplace safety procedures 4.2 Assist maintenance personnel to identify and resolve equipment faults 4.3 Plan and coordinate routine maintenance of end matching 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	- Identifies quantities of required material to fill production orders - Measures trialled material dimensions and profiles against specifications and appropriate tolerances - Completes routine calculations to determine end matching schedules, considering labour and equipment resource capacity
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Interact with others	Uses modes of communication suitable to purpose to confirm and clarify understanding
Get the work done	Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3275 Set up, operate and maintain end	FWPCOT3209 Set up, operate and maintain end	Updated workplace health and safety requirements; renamed element 1; split element 2;	Equivalent unit

matching machines	matching operations	revised performance evidence to map to performance criteria; updated unit code and title for clarity and compliance	
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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 FWPCOT3275 Set up, operate and maintain end matching 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:

- followed work order and relevant workplace health and safety and environmental protection procedures
- prepared for end matching operations
- planned and communicated end matching schedule to operators:
 - timber cross-sections to be end matched
 - end matching profiles
 - finished product grades
 - quantities to be produced
 - changeover times
- set up end matching machine and equipment
- monitored end matching operation
- completed production records
- coordinated shut-down and maintenance of end matching machine and 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 end matching machine and equipment
- typical workflow processes for end matching operations
- methods of determining end matching schedules to maximise equipment, labour and material use
- format, content and use of end matching schedules
- monitoring processes for end matching machines and overall production process
- typical processing and equipment faults and solutions for minimal production disruption

- range of industry standard cross-sections for end matched timber products, their strength, tolerances and applicable terminology
- purpose, features, operation and maintenance requirements of equipment used to produce end matched products, including:
 - guides
 - cutters
 - conveyors
- types of risk and hazards and mitigation measures associated with end matching operations
- workplace procedures specific to coordinating end matching operations:
 - workplace health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and safe manual handling techniques
 - use of end matching machine and equipment
 - communication reporting lines for operator team members and self
 - documenting and communicating end matching schedules
 - recording and reporting production outcomes and maintenance schedules
- environmental protection practices for timber processing or 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:
 - end matching equipment and associated repair and maintenance tools
 - computers, keyboards, printers and software to prepare end matching schedules and maintenance documents
 - PPE suitable for end matching operations
 - a diverse range of commercial timber
- specifications:
 - template documents for end matching schedules, production reports and maintenance reports
 - production orders with specific information about grades, quantities and cross-sections for specified end matched timber products
 - maintenance schedule for end matching equipment
 - workplace procedures for coordinating end matching 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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