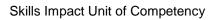
Modification history

Release	Comments	
Release 2	This version released with FWP Forest and Wood Products Training Package Version [4.0]	
	Version created to update workplace health and safety requirements in performance criteria and clarify intent of unit and assessment requirements.	
Release 1	This version replaces equivalent FPICOT3234B Cut material using CNC sizing machines, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2.	
	This is the first release of this unit in the new standards format.	

UNIT CODE	FWPCOT3234 Cut material using CNC sizing machines	
This unit of competency describes the skills and knowledge re up and operate computer numerically controlled (CNC) sizing process used for the production of engineered wood products components in a timber manufacturing facility. Work also involved the completed in a forest products factory setsting and includes of maintenance.		
	The unit applies to individuals who work as production workers, engineered timber products technicians, machine operators or timber fabricators. Operators generally work under broad or limited direction to complete routine activities related to own work and take responsibility for their work.	
	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, regulatory, or certification requirements apply to this unit at the time of publication.	
Prerequisite Unit	Nil	
Unit Sector	Common Technical	

Elements	Performance Criteria
Elements describe the	Performance criteria describe the performance needed to demonstrate
essential outcomes.	achievement of the element.
Prepare for cutting	1.1 Review work order and specifications and where required check with
engineered wood product	appropriate personnel
<u>or</u> timber	1.2 Follow workplace health and safety requirements, environmental
	protection practices and emergency procedures and use personal
	protective equipment (PPE) in line with operational requirements throughout
	CNC cutting operations
	1.3 Identify and report hazards, accidents, incidents and/or near misses in
	line with operational requirements and health and safety legislative
	requirements to maintain safe work practices.
	1.2 Select appropriate personal protective equipment and check for
	operational effectiveness
	1.3 Obtain type and quantity of material to be cut from storage location
	1.4 Plan material cutting process in line with work order

Elements	Performance Criteria	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	
2. Set up CNC sizing	2.1 Set CNC optimising program to jobmeet work specifications	
machine	2.2 Check cutting machine mechanisms, emergency stops, gauges, guards and controls for safe and effective operation	
	2.3 Adjust cutting machine settings in line with work orderspecifications	
	2.4 Complete trial run to check system and machine operation for accuracy, quality and dimensions of finished work	
	2.5 Accept or reject trialled material and dispose of in line with environmental protection practices	
	2.6 Complete final adjustments to CNC optimising program and equipment	
3. Operate CNC sizing	3.1 Use equipment in line with organisational workplace health and safety	
machine	procedures, manufacturer's instructions-, design-operating capacity and	
	purpose and environmental protection practices	
	3.2 Feed engineered wood product or timbermaterials into machine,	
	operate cutting equipment in line with tooling requirements and monitor use	
	regularly to minimise waste and ensure correct dimensions are produced	
	3.3 Repair or dispose of incorrect cuts, off-cuts and material with defects in line with environmental protection practices	
	3.4 Identify routine processing problems and resolve or report to	
	appropriate personnel	
4. Complete operator	4.1 Lock out equipment Follow in line with organisational safetyworkplace	
maintenance	health and safety procedures to lock out equipment	
	4.2 Check blades for bluntness or damage	
	4.3 Remove and replace blades in line with manufacturer recommendations	
	4.4 Dispose of used blades in line with environmental protection practices	
	4.5 Keep machine clear of dust and debris in line with organisational safety	
	procedures	
	4.6 Record and report production outcomes, equipment faults and	
	maintenance requirements to appropriate personnel	



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	 identify quantities of required material within work orders and count and count numbers to be cut set numerical data on CNC optimising program according to sizing specifications calculate the feed rate to optimise quality and quantity of production output measure finished dimensions against specifications and allowable tolerances 	
Oral communication	ask open and closed probe questions and actively listen to clarify contents of work orders	
Reading	 interpret: workplace health and safety and other organisational procedures work orders manufacturer instructions and maintenance recommendations. 	
Writing	complete accurate basic records for production outcomes, equipment faults and maintenance requirements	
Plan and organise	efficiently and logically sequence the stages of preparation and production using work order to guide activities	

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3234 Cut material using CNC sizing machines	FWPCOT3234 Cut material using CNC sizing machines	Updated workplace health and safety requirements in performance criteria and clarified intent of unit and assessment requirements	Equivalent unit

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 FWPCOT3234 Cut material
	using CNC sizing machines

Performance Evidence

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

- followed organisational <u>workplace health and safety requirements and environmental protection</u>
 policies and procedures relevant tofor cutting engineered wood product or timber material using CNC sizing machines
- cut <u>engineered wood product or timbermaterials</u> using CNC <u>sizing</u> equipment in line with a work order and within prescribed organisational tolerances and according to manufacturers recommendations
- setting computer programs for the CNC sizing equipment to followin line with work specifications
- conducted operator maintenance on CNC 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:

- health and operational hazards or risks related to operating CNC sizing machines for cutting engineered wood products or timber as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- organisational policies and procedures specific to cutting material using CNC sizing machines:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - · use of CNC equipment
 - · communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements
- environmental protection practices for forest products factory settingstimber manufacturing facilities:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - · disposing of, recycling and reusing timber and other waste
- range of cutting patterns used with CNC sizing machines to achieve accurate dimensions and quality
 of finished workproduct
- characteristics of timber, timber products and timber defects
- system functions and capabilities of CNC software for sizing machines including cutting patterns and sequences
- purpose, features and operation of CNC sizing machines:
 - CNC beam saws
 - CNC double end profiling machines
- methods for assessing saw blade condition.

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:
 - CNC sizing machines
 - computer program for sizing machines
 - maintenance tools and equipment for sizing machines
 - consumable saw blades
 - personal protective equipment suitable for cutting material using CNC sizing machines
 - suitable material a diverse range of including one or more of the following commercial timber:
 - beams, including laminated beams
 - cross laminated timber
 - laminated veneer
 - chipboard
 - medium density fibreboard
 - dressed timber

Assessment Conditions

- preservative treated timber
- specifications:
 - manufacturer instructions for use and maintenance of equipment
 - work order with specific instructions for cutting material using CNC sizing machines
 - workplace health and safety and emergency procedures
 - environmental protection procedures
 - organisational policies and procedures for cutting material using CNC sizing machines.
 - template documents for recording production outcomes, equipment faults and maintenance requirements

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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	https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-
	9d6f-3509ff8d3d47

