



Australian Government

FWPCOT3331 Cut material using CNC sizing machines

Release: 1

FWPCOT3331 Cut material using CNC sizing machines

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to set up and operate computer numerical control (CNC) sizing machines to achieve accurate dimensional cuts of engineered wood products and timber components in a manufacturing facility. Work also involves operator 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 their 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.

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 cutting engineered wood product	1.1 Review work order, specifications, workplace health and safety requirements, environmental protection practices and emergency procedures for CNC cutting operations and, where required, check

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
or timber	with appropriate personnel 1.2 Identify and report hazards and use personal protective equipment according to workplace requirements and health and safety legislation to maintain safe work practices 1.3 Obtain the type and quantity of material to be cut from a storage location
2. Set up the CNC sizing machine	2.1 Set CNC optimising program to meet work specifications 2.2 Check the CNC cutting machine mechanisms, emergency stops, gauges, guards and controls for safe and effective operation 2.3 Adjust the CNC cutting machine settings according to work specifications 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 according to environmental protection practices 2.6 Complete final adjustments to CNC optimising program, cutting tools and equipment
3. Operate the CNC sizing machine	3.1 Use the CNC sizing machine, cutting tools and equipment according to workplace health and safety procedures, manufacturer instructions, operating capacity and purpose and environmental protection practices 3.2 Feed engineered wood product or timber into the CNC machine, operate cutting tools according to tooling requirements and regularly monitor to minimise waste and ensure correct dimensions are produced 3.3 Repair or dispose of incorrect cuts, off-cuts and material with defects according to environmental protection practices 3.4 Identify routine processing problems and resolve or report to appropriate personnel
4. Complete operator maintenance	4.1 Lock out the CNC sizing machine according to workplace health and safety procedures 4.2 Check blades for bluntness or damage 4.3 Remove and replace blades according to manufacturer recommendations 4.4 Dispose of used blades according to environmental protection

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	practices 4.5 Keep machine clear of dust and debris according to organisational safety procedures 4.6 Record and report production outcomes, machine and 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
Reading	Read routine, familiar workplace documents, including workplace health and safety procedures, work plans and manufacturer manuals
Writing	Complete basic written reports on CNC cutting operation and equipment faults
Oral communication	- Ask questions and apply active listening skills to clarify contents of work order - Make accurate verbal reports on processing and equipment faults
Numeracy	- Identify quantities of required material within work orders, 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

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
--------------------------------	---------------------------------	----------	--------------------

FWPCOT3331 Cut material using CNC sizing machines	FWPCOT3234 Cut material using CNC sizing machines	Updated Performance Evidence	Equivalent
---	---	------------------------------	------------

Links

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