



Australian Government

FWPCOT3332 Machine timber or engineered wood products using CNC machining and processing centres

Release: 1

FWPCOT3332 Machine timber or engineered wood products using CNC machining and processing centres

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

Application

This unit of competency describes the skills and knowledge required to set up, operate and maintain computer numerical control (CNC) machining and processing centres used to process and cut holes in engineered wood products and timber components. Work also involves operator maintenance.

The unit applies to individuals who operate CNC machining and processing centres in a timber or wood products production 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 machining engineered wood products or timber	1.1 Review work order, machining specifications, workplace health and safety and environmental protection practices and/or procedures, and emergency procedures for CNC machining operation and, where

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	required, check 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 type and quantity of timber or engineered wood products for machining from storage location
2. Set up CNC machine	2.1 Set CNC program to meet work specifications 2.2 Check CNC machine mechanisms, cutting tools, jigs, emergency stops, gauges, guards and controls for safe and effective operation 2.3 Adjust CNC 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 timber or engineered wood products, and dispose of according to workplace environmental protection practices and/or procedures 2.6 Complete final adjustments to CNC program, cutting tools and equipment
3. Operate CNC machine	3.1 Use CNC machine, cutting tools and equipment according to purpose, workplace health and safety procedures and environmental protection practices and/or procedures, manufacturer instructions and operational capacity 3.2 Feed engineered wood product or timber into 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 timber or engineered wood products with defects according to workplace environmental protection practices and/or procedures 3.4 Identify routine processing problems and resolve or report to appropriate personnel
4. Complete operator maintenance	4.1 Lock out CNC machine according to workplace health and safety procedures 4.2 Check cutting tools for bluntness or damage 4.3 Remove and replace cutting tools according to manufacturer recommendations

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.4 Dispose of used cutting tools according to workplace environmental protection practices and/or procedures 4.5 Keep machining area clear of dust and debris according to workplace health and 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	Interpret routine workplace documents related to CNC machining operations
Oral communication	Ask open and closed probing questions and actively listen to clarify contents of work orders and production documentation
Numeracy	- Identify quantities of required timber or wood products within work plans, and count numbers to be machined - Set numerical data on CNC program according to machining specifications - Calculate feed rate to optimise quality and quantity of production output - Measure finished dimensions against specifications and appropriate tolerances

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3332 Machine timber or engineered wood products using CNC	FWPCOT3235 Machine material using CNC machining and	Updated unit title Minor changes to Application and	Equivalent

machining and processing centres	processing centres	Knowledge Evidence Revised Foundation Skills, Performance Evidence and Assessment Conditions	
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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>