



Australian Government

FWPCOT3289 Load and prove operating program for CNC machine

Release: 1

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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 load and prove a program for a computer numerical control (CNC) machine. This includes preparing for work, locating the CNC program file, checking the program for currency, loading the program correctly into the machine controller, checking for and dealing with fault/error messages, following proving/editing procedures and saving edited programs.

The unit applies to individuals who load and prove programs for CNC machines in a timber processing and 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 to load and verify program for CNC	1.1 Review work order and, where required, seek clarification from appropriate personnel

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
machinery	<p>1.2 Review workplace health and safety procedures, including the use of personal protective equipment, equipment lock-out and safe manual handling techniques</p> <p>1.3 Identify, assess and take actions to mitigate risks and hazards associated with loading and proving CNC programs</p> <p>1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency</p> <p>1.5 Use the correct control program and ensure it is correctly loaded into machine controller</p> <p>1.6 Call up the program and deal with any error messages or faults according to workplace procedures and manufacturer instructions</p> <p>1.7 Confirm program integrity according to workplace procedures</p>
2. Load program	<p>2.1 Carry out program loading and checking activities according to workplace procedures and manufacturer instructions</p> <p>2.2 Store program media away from contaminants or electromagnetic sources according to workplace procedures</p> <p>2.3 Return operating programs to correct location on completion of machining activities</p>
3. Prove program for CNC machinery	<p>3.1 Confirm that machine and program operate safely and correctly by applying appropriate checks and procedures according to machine type and manufacturer instructions</p> <p>3.2 Adjust machine and program operating parameters to optimise outcomes to be achieved</p> <p>3.3 Load and correctly set up all associated equipment</p> <p>3.4 Check that all safety mechanisms are in place and that the machine is set correctly for the required operations</p> <p>3.5 Respond to problems within scope of responsibility, or report problem to appropriate personnel</p> <p>3.6 Save and store edited programs according to workplace procedures</p>

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	<ul style="list-style-type: none"> Extracts key information from workplace and reference documents on loading and proving programs for CNC machines
Writing	<ul style="list-style-type: none"> Prepares routine written reports that inform others on the outcomes of work activities
Oral communication	<ul style="list-style-type: none"> Uses speaking and listening skills to share information with other CNC machine operators about loading and proving programs for CNC machines
Numeracy	<ul style="list-style-type: none"> Takes machine readings to verify machines are operating correctly Applies numerical skills to describe tool datums, positions, lengths, offsets and radius compensation
Navigate the world of work	<ul style="list-style-type: none"> Understands main tasks, responsibilities and boundaries of own role
Interact with others	<ul style="list-style-type: none"> Uses modes of communication suitable to purpose to confirm and clarify understanding
Get the work done	<ul style="list-style-type: none"> Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3289 Load and prove operating program for CNC machine	Not applicable	New unit	No equivalent unit

Links

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

