



Australian Government

Assessment Requirements for FWPCOT3331 Cut material using CNC sizing machines

Release: 1

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Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, during at least one operational interval, the individual has cut one or more of the following types of engineered wood product or timber according to work specifications and within prescribed organisational tolerances:

- glued laminated beams (glulam)
- cross-laminated timber (CLT)
- laminated veneer
- chipboard
- medium density fibreboard
- dressed timber
- preservative treated timber.

In performing this work, there must be evidence that the individual has:

- used one or more of the following types of computer numerical control (CNC) sizing machines:
 - CNC beam saw
 - CNC double end profiling machine
 - CNC controlled docking saws
 - CNC controlled length and angle saws
 - CNC controlled single end profiling machines
 - CNC controlled routing machines
 - CNC controlled moulders
 - CNC controlled sharpening machines
- set computer programs for the CNC sizing machines according to work specifications
- conducted operator maintenance on the CNC sizing machines, cutting tools and equipment

- followed workplace health and safety requirements, including the use of personal protective equipment (PPE).

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 safety 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
- workplace policies and procedures specific to cutting material using CNC sizing machines:
 - health and safety, with particular emphasis on equipment lock-out and the use of PPE
 - use of CNC sizing machines, cutting tools and equipment
 - communication reporting lines
 - recording and reporting production outcomes, machine and equipment faults and maintenance requirements
- environmental protection practices for manufacturing facilities:
 - reducing water and energy use
 - cleaning plant, cutting 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 the finished product
- 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 used to cut engineered wood product or timber
- methods for assessing saw blade condition.

Assessment Conditions

Assessment of the skills in this unit of competency 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 machine
 - computer program for sizing machines
 - maintenance tools for CNC sizing operations
 - saw blades suitable for CNC sizing machines

- PPE suitable for cutting material using CNC sizing machines
- engineered wood product or timber suitable for cutting operations using CNC sizing machines
- CNC program suitable for the cutting operations
- specifications:
 - manufacturer instructions for use and maintenance of equipment
 - work order with specific instructions for cutting material using CNC sizing machines
 - workplace policies and procedures for cutting material using CNC sizing machines, including health and safety and emergency procedures and environmental protection procedures
 - 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.

Links

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