



Australian Government

Assessment Requirements for FWPTMM5205 Optimise CNC operations

Release: 2

Assessment Requirements for FWPTMM5205 Optimise CNC operations

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 4.0.
Release 1	This version replaces equivalent unit FPITMM5201B Assess product feasibility of designs, 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.

Performance Evidence

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

- installed and commissioned computer numerical control (CNC) integrated software to attain and sustain optimal integration in CNC sizing machines or CNC machining and processing centres to produce different outputs
- checked that machine is operating safely according to its intended purpose and program and to maximum output
- completed a detailed and accurate report, for each installation, on the installation and commissioning process and problems encountered.

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, including personal protective equipment (PPE), related to optimising CNC operations as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- workplace procedures for optimising CNC operations:
 - health and safety requirements
 - installing software and commissioning machinery
 - recording and reporting on installation and commissioning processes and problems
- the CNC software:
 - program format and operational purpose

- compatibility of two or more sets of software
- system functions and capabilities
- methods to install and collate two or more sets of software information established through a common identifier
- methods to maximise the program to optimise machine output
- methods to commission machinery to operational specification
- requirements for safe storage of program master copy
- the machinery being commissioned:
 - operational purpose and sizing specifications
 - maximum production capacity
 - methods to monitor the operation of commissioned machines and check calibration.

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 and CNC machining and processing centres
 - CNC software programs
 - PPE suitable for optimising CNC machines and operations
- specifications:
 - production plans and information on production orders
 - machine sizing specifications
 - instructions for installing CNC software and commissioning machinery
 - template reports for installation and commissioning processes and problems
 - workplace procedures for installing software and commissioning machinery, including health and safety and emergency procedures.

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>