



Australian Government

**Assessment Requirements for
FWPTMM5203 Generate and transfer
complex computer-aided drawings and
specifications**

Release: 2

Assessment Requirements for FWPTMM5203 Generate and transfer complex computer-aided drawings and specifications

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 FPITMM5203B Generate and transfer complex computer-aided drawings and specifications, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2.

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:

- generated and transferred the following types of complex computer-aided design (CAD) drawings:
 - three-dimensional (3-D) models
 - one-, two- and three-point perspective drawings
 - orthographic and exploded views
 - plans
 - diagrams
 - charts
 - elevations
- incorporated the following drawing entities into four types of complex CAD drawings:
 - lines
 - arcs
 - circles
 - text
 - hatch
 - dimensions
 - labels
- converted each complex CAD drawing for use in computer numerical control (CNC) machining centres
- created a job sheet for each complex CAD drawing

- completed a basic report on drawing processes and equipment faults for each complex CAD drawing.

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:

- common products for which computer-aided drawings are produced, their features, use and standard material sizes
- ways in which computer-aided drawings are applied to CNC machines
- CNC specifications and sequencing of machine operations for the production of common products
- the drawing software:
 - available drawing types
 - system functions and capabilities
- methods to input and amend design factors and other data
- methods to:
 - prepare 3-D models
 - prepare perspective view
 - prepare orthographic view and incorporate dimensions
 - explode models
 - label components
 - convert drawings for CNC applications
 - store and retrieve drawings and job sheets
- formats for and inclusions of job sheets
- workplace procedures specific to producing drawings and documents using computers:
 - producing job sheets
 - filing computerised drawings and documentation.

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:
 - computers, keyboards and current software programs used to produce computer-aided drawings and job sheets
- specifications:
 - CNC machinery specifications
 - template job sheets
 - workplace procedures for producing drawings and documents using computers.

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>