



Australian Government

FWPTMM4203 Install and commission CNC software

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPITMM4203B Install and commission CNC software, 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.

Application

This unit of competency describes the outcomes required to install and commission computer numerically controlled (CNC) processes and machine control programs for CNC sizing machines and CNC machining and processing centres. Work is completed in a forest and wood products factory setting

The unit applies to managers or supervisors of timber manufacturing facilities who update machinery and commission new equipment in response to technological improvements and new operational imperatives.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products

Timber Merchandising

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for software installation	1.1 Diagnose program format and operational purpose and identify specified applications.

	<p>1.2 Check specifications for intended operating conditions.</p> <p>1.3 Check program instructions for compliance with specifications.</p> <p>1.4 Counter set software timers to specification.</p>
2. Install automatic process machine control programs	<p>2.1 Select appropriate program loading technique.</p> <p>2.2 Connect external loading devices correctly to automatic process machine control system.</p> <p>2.3 Place machine control system in correct operational mode to accept program loading.</p> <p>2.4 Download program in line with manufacturer's recommended procedure.</p> <p>2.5 Check during and after downloading to ensure accurate and complete data transfer.</p> <p>2.6 Disconnect external program loading devices and connections from process and machine control system.</p>
3. Commission automatic process and machine control program	<p>3.1 Monitor operation of equipment using the program for accuracy and safe performance.</p> <p>3.2 Measure and check outputs for compliance with specifications.</p> <p>3.3 Check external inputs for compliance with specifications.</p> <p>3.4 Check total operation for compliance with specifications and resolve any issues.</p> <p>3.5 Identify location for storage of program master copy and store accordingly.</p> <p>3.6 Record installation and commissioning process and problems and report to appropriate personnel.</p>

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	<ul style="list-style-type: none"> interpret sizing specifications for machines and monitor the operation of commissioned machines to ensure accurate calibration.
Reading skills to:	<ul style="list-style-type: none"> interpret detailed and sometimes unfamiliar instructions for installing CNC software and commissioning machinery.

Writing skills to:	<ul style="list-style-type: none">complete detailed and accurate reports on installation and commissioning processes and problems.
Planning and organising skills to:	<ul style="list-style-type: none">efficiently and logically manage operational logistics for installing software and commissioning machinery.
Problem-solving skills to:	<ul style="list-style-type: none">monitor machinery for compliance with calibration specifications and resolve any issues.
Technology skills to:	<ul style="list-style-type: none">use computerised operating controls for CNC machines to monitor accurate and safe performance.

Range of Conditions

Not Applicable

Unit Mapping Information

FPITMM4203B Install and commission CNC software

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>