



Australian Government

MSFFT4005 Install and commission computer numerically controlled (CNC) software

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers installing and commissioning CNC process and machine control programs in the furnishing industry.

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

Pre-requisite Unit

Competency Field

Unit Sector

Furnishing Technology

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|---|-----|---|
| 1 | Prepare for software installation | 1.1 | Program format and operational intent is accurately determined and required applications identified |
| | | 1.2 | Specifications are checked for required operating conditions |
| | | 1.3 | Program instructions are checked for compliance with specifications |
| | | 1.4 | Software timers are set to specification where required |
| 2 | Install automatic process machine control program | 2.1 | Appropriate program loading technique is selected |
| | | 2.2 | External loading devices are correctly connected to automatic process machine control systems |
| | | 2.3 | Machine control system is placed in correct operational |

- mode to accept program loading
- 2.4 Program is downloaded in accordance with manufacturer recommended procedures and enterprise requirements
 - 2.5 Checks are made during and after downloading to ensure accurate and complete data transfer
 - 2.6 External program loading devices and connections are disconnected from process and machine control system
- 3 Commission automatic process and machine control program
 - 3.1 Operation of the equipment using the program is observed
 - 3.2 Outputs are checked and measured for compliance with specifications
 - 3.3 External inputs are checked for compliance with specifications according to specified procedures
 - 3.4 Total operation is checked for compliance with specifications where applicable
 - 3.5 Location of program master copy storage is confirmed

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit context includes:

- work health and safety (WHS) requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent
- work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation

- insurance requirements
 - work requires individuals to demonstrate analytical and organisational ability, judgement and problem solving
 - work involves individual and team-related activities in workplaces where the CNC equipment is either new or being substantially upgraded
 - work is performed without other qualified assistance
 - customers are normally internal
- Machines requiring CNC software installation and commission include:**
- individual production/manufacturing or treatment machines
 - processing and machining centres
- Personal protective equipment includes:**
- that prescribed under legislation, regulations and enterprise policies and practices
- Information and procedures include:**
- manufacturer specifications and instructions
 - procedures for installing and commissioning CNC programs
 - organisation work specifications and requirements
 - legislation/regulation/national and industry codes and practices relevant to the installation and commissioning
 - quality and Australian Standards and procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFT4005B Install and commission CNC software.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>