



Australian Government

**MSFFM3044 Set up, operate and maintain
computer numerically controlled (CNC)
sizing machines**

Release: 1

MSFFM3044 Set up, operate and maintain computer numerically controlled (CNC) sizing machines

Modification History

Release 1. Changes to code, application, elements, performance criteria, assessment requirements. Foundation skills added. Range of conditions removed. Assessment requirements changed.

Application

This unit describes the skills and knowledge required to set up, operate and maintain CNC sizing machines for the manufacture of products.

Workers with this competency follow established procedures, using discretion, judgement and problem solving to identify and resolve routine product and machine issues.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Wood machining

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for task	1.1 Determine task requirements from work documentation 1.2 Identify and follow work health and safety requirements 1.3 Select material for machining and confirm it meets task and workplace quality requirements 1.4 Identify and confirm procedures for waste minimisation and energy efficiency

<p>2. Set up machines</p>	<p>2.1 Set CNC program to meet task requirements</p> <p>2.2 Confirm operational readiness of safety equipment and emergency stops, gauges, guards and controls prior to machine start-up</p> <p>2.3 Complete machine settings and adjustments in accordance with job requirements and machine and tool manufacturer instructions</p> <p>2.4 Check and confirm safe and effective operation of machines, cutting tools and jigs</p> <p>2.5 Complete trial runs to check machine operation, accuracy and quality of finished work</p> <p>2.6 Make final adjustments to CNC programs and equipment in accordance with task requirements and workplace procedures</p>
<p>3. Operate machines</p>	<p>3.1 Operate machine in accordance with its designed capacity and purpose, and to manufacturer recommendations</p> <p>3.2 Monitor machine operation to ensure product quality and output</p> <p>3.3 Check waste quantities and make adjustments to minimise waste</p> <p>3.4 Identify items that do not meet quality requirements and recycle or discard in accordance with workplace procedures</p> <p>3.5 Recognise problems with product or machine operation and resolve or report to appropriate persons in accordance with workplace procedures</p> <p>3.6 Follow authorised changes in working procedures</p>
<p>4. Finalise task</p>	<p>4.1 Clean work area, safely dispose of waste and identify items for recycling in accordance with workplace procedures and environmental standards</p> <p>4.2 Clean machinery, complete routine maintenance and leave in safe mode in accordance with workplace procedures</p> <p>4.3 Identify, tag and report faulty equipment in accordance with workplace procedures</p> <p>4.4 Complete task documentation in accordance with workplace procedures</p>

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret familiar workplace procedures, work documentation involving drawings and product specifications
- Writing skills to communicate information in familiar workplace documents
- Numeracy skills to measure and calculate area and estimate material requirements
- Technology skills to use software features of CNC machinery.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSFFM3021 Set up, operate and maintain CNC sizing machines.

Links

Companion Volume implementation guides are found in VETNet -

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