



CNC 3-Axis Milling Programmer



Date	March 13, 2026	Orientation Time	8:00 a.m. (CLOSED to instructors)
Location	Tri-County Career Center 15676 OH-691 Nelsonville, OH 45764	Contest Time	Immediately following orientation (CLOSED contest)
Scope of Contest	This competition will assess the ability to program CNC milling machines, interpret prints (including GDT), and measure/gauge parts. Competitors also will demonstrate theoretical knowledge of CNC machine configuration, setup, and operations.		
Testing	No		
Eligibility	2 contestants per building IRN (chapter)		
Clothing	Clothing Competition Guide: CLASS D		
Provided by Contestant	<ul style="list-style-type: none">• Professional Resume - Typed Hardcopy• Emergency Medical Forms (Contestants must have this to compete)• Contestants may bring their own laptop, but must come with either the 2023, 2024, or 2025 version(s) of Mastercam software or Autodesk Fusion 360 installed and operational.• Safety Glasses• G&M Handbook (Optional)• Machinery Handbook (Optional)• Non-programmable calculator• Blank note paper• Two pencils• Verification of Tool Training and Safety (Contest Specific See forms on SkillsUSA Ohio Web site)• Provided at site: Hard copy of Haas CNC Mill and CNC Lathe reference manual to use during contest, plain paper for notes and calculations on contest, computer with Mastercam software. <p><u>The following WILL NOT be tolerated and are grounds for disqualification from the competition:</u></p> <ul style="list-style-type: none">• No smart watches, cellphones and/or other electronic devices in the contest area unless specifically stated in this document. These devices cannot be used as a calculator.• No contact with anyone outside of the contest area once the contest begins.• No inappropriate communication between contestants such as verbally degrading another contestant or informing another contestant of the skills/test prior to or during the competition.• No cheating on any portion of the contest.• The use of AI is strictly prohibited and will result in an automatic disqualification of the contestant.		
Contest Standards	Contest Skilled Performance Standards	Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes	

	<p>CNCM 1.0 - Process Planning: Formulate strategies to mill parts</p> <p>CNCM 2.0 - Modeling: Create and/or modify solid models</p> <p>CNCM 3.0 - Toolpath Creation: Create toolpaths to mill parts</p>	<p>Outcome 6.9 Computer Numerical Control (CNC)</p> <p>Outcome 6.1 Measurement and Interpretation</p> <p>Outcome 6.2 Layout and Planning</p> <p>Outcome 6.3 Cutting</p> <p>Above Outcomes can be found in the following ODEW courses: 176006 Machining with Industrial Milling Machines 176007 Computer Numerical Control Technology with Industrial Mills and Lathes</p>
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