



CNC 3-Axis Milling Programmer



Date	February 13, 2026	Orientation Time	10:45 A.M
Location	Apollo Career Center 3325 Shawnee Rd. Lima, OH 45806	Contest Time	Immediately following orientation (CLOSED contest)
Scope of Contest	<p>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.</p> <p>The use of generative Artificial Intelligence (AI) is strictly prohibited and will result in an automatic disqualification of the contestant.</p>		
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.• <u>The following WILL NOT be tolerated and are grounds for disqualification from the competition:</u><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	<table border="1"> <thead> <tr> <th data-bbox="435 121 870 191"> Contest Skilled Performance Standards </th><th data-bbox="870 121 1427 191"> Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes </th></tr> </thead> <tbody> <tr> <td data-bbox="435 191 870 348"> CNCM 1.0 - Process Planning: Formulate strategies to mill parts </td><td data-bbox="870 191 1427 348"> Outcome 6.9 Computer Numerical Control (CNC) </td></tr> <tr> <td data-bbox="435 348 870 506"> CNCM 2.0 - Modeling: Create and/or modify solid models </td><td data-bbox="870 348 1427 506"> Outcome 6.1 Measurement and Interpretation Outcome 6.2 Layout and Planning </td></tr> <tr> <td data-bbox="435 506 870 821"> CNCM 3.0 - Toolpath Creation: Create toolpaths to mill parts </td><td data-bbox="870 506 1427 821"> Outcome 6.3 Cutting 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 </td></tr> </tbody> </table>	Contest Skilled Performance Standards	Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes	CNCM 1.0 - Process Planning: Formulate strategies to mill parts	Outcome 6.9 Computer Numerical Control (CNC)	CNCM 2.0 - Modeling: Create and/or modify solid models	Outcome 6.1 Measurement and Interpretation Outcome 6.2 Layout and Planning	CNCM 3.0 - Toolpath Creation: Create toolpaths to mill parts	Outcome 6.3 Cutting 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
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