



# CNC 3-Axis Milling Programmer



<b>Date</b>	February 1, 2025	<b>Orientation Time</b>	8 a.m. (CLOSED to instructors)
<b>Location</b>	Mid-East CTC-Zanesville 400 Richards Road Zanesville, Ohio 43701 Room 3016	<b>Contest Time</b>	Immediately following orientation (CLOSED contest)
<b>Scope of Contest</b>	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.		
<b>Testing</b>	Written Test, Precision Machining, CAD/CAM Programming		
<b>Eligibility</b>	1 contestant for every 50 paid members enrolled in program		
<b>Clothing</b>	Clothing Classification Guide – CLASS D		
<b>Provided by Contestant</b>	Professional Resume – must be typed and physically produced as a hard copy Emergency Medical Form (Contestants must have this to compete) Pen or Pencil Laptop with CAD/CAM Software Non-programmable calculator (not a machinist calculator) Machinist and/or Engineering Reference Material <u>Provided at site:</u> Plain paper for notes and calculations on contest <u>Disqualifications:</u> Cell phone in competition area, smart watches.		
<b>Contest Standards</b>	<b>Contest Skilled Performance Standards</b>  <b>CNCM 1.0</b> - Apply basic machining skills per industry standards as set forth by the technical committee.  <b>CNCM 2.0</b> - Demonstrate knowledge of CNC programming per industry standards as set forth by the technical committee.  <b>CNCM 3.0</b> - Perform mathematical calculations as needed for calculating speeds, feeds, program coordinates, angles, radii and tangent points.	<b>Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes</b>  <b>Outcome 6.9</b> Computer Numerical Control (CNC)  <b>Outcome 6.9</b> Computer Numerical Control (CNC)  <b>Outcome 6.1</b> Measurement and Interpretation <b>Outcome 6.2</b> Layout and Planning <b>Outcome 6.3</b> Cutting  Above Outcomes can be found in the following ODE courses: 176006 Machining with Industrial Milling Machines 176007 Computer Numerical Control Technology with Industrial Mills and Lathes	