



CNC Programmer



Date	February 14, 2025 Snow Date – February 18, 2025	Orientation Time	10:45 AM (CLOSED to instructors)
Location	Vantage Career Center 818 N. Franklin Street Van Wert, OH 45891	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. The use of generative Artificial Intelligence (AI) is strictly prohibited and will result in an automatic disqualification of the contestant.		
Testing	No		
Eligibility	2 competitors per school		
Clothing	Clothing Classification 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 must bring their own laptop, and 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 <p>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> <p>Disqualifications: Cell phone in competition area, smart watches. Use of internet or Artificial Intelligence (AI)</p>		

<p>Contest Standards</p>	<p>Contest Skilled Performance Standards</p> <p>CNCTECH 1.0 - Apply basic machining skills per industry standards as set forth by the SkillsUSA technical committee.</p> <p>CNCTECH 2.0 - Demonstrate knowledge of CNC programming per industry standards as set forth by the SkillsUSA technical committee.</p> <p>CNCTECH 3.0 - Perform mathematical calculations as needed for calculating speeds, feeds, program coordinates, angles, radii and tangent points.</p>	<p>Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes</p> <p>Outcome 6.1 Measurement and Interpretation</p> <p>Outcome 6.2 Layout and Planning</p> <p>Outcome 6.9 Computer Numerical Control (CNC)</p> <p>Above Outcomes can be found in the following ODEW courses:</p> <p>176006 Machining with Industrial Milling Machines</p> <p>176007 Computer Numerical Control Technology with Industrial Mills and Lathes</p>
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