CNC 2-Axis Turning Programmer

Date	February 21, 2025	Orientation Time	7:30 a.m. (CLOSED to instructors)
Location	Delaware Area Career Center 4565 Columbus Pike Delaware, OH 43015	Contest Time	Immediately following orientation (CLOSED contest)
Scope of Contest	This competition will assess the ability to program CNC turning centers, 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 contests per building IRN (chapter)		
Clothing	Clothing Competition Guide: CLASS D		
Provided by Contestant	- 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. **Disqualifications:** Cell phone in competition area, smart watches. Use of internet or Artificial Intelligence (AI)		
Contest Standards	**Contest Skilled Performance Standards** **CNCT 1.0 -** Apply basic machining skills per industry standards as set forth by the technical committee. **CNCT 2.0 -** Demonstrate knowledge of CNC programming	**Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes** **Outcome 6.9** Computer Numerical Control (CNC) **Outcome 6.1** Measurement and Interpretation **Outcome 6.2** Layout and Planning	

	per industry standards as set forth by the technical committee. **CNCT 3.0 -** Perform mathematical calculations as needed for calculating speeds, feeds, program coordinates, angles, radii and tangent points.	**Outcome 6.5** Turning Above Outcomes can be found in the following ODEW courses: 176005 Machining with Industrial Lathes 176007 Computer Numerical Control Technology with Industrial Mills and Lathes