CNC Programmer

Date	February 24, 2024	**Orientation Time**	8 A.M. (CLOSED to instructors)
Location	Mid-East CTC - Zanesville 400 Richards Road Zanesville, OH 43701 Room 3016	**Contest Time**	*immediately following orientation (Closed Contest)
Scope of Contest	This competition will assess the ability to program CNC milling machines and turning centers, interpret prints (including GDT), and measure/gauge parts. Competitors also will demonstrate theoretical knowledge of CNC machine configuration, setup, and operations.		
Testing	Written Test, Precision Machining, CAD/CAM Programming		
Eligibility	1 contestant for every 50 paid members enrolled in program		
Clothing	Work Attire: Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Work shoes or boots with a hard sole or anti-slip properties (steel toes may be required – refer to **Provided by Contestant** section below). Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered.		
Provided by Contestant	Resume' Emergency Medical Form (Contestants must have this to compete) Pen or Pencil Laptop with CAD/CAM Software Non-programmable calculator (not a machinist calculator) <u>Provided at site</u>: Plain paper for notes and calculations on contest <u>Disqualifications</u>: Cell phone in competition area, smart watches.		
Contest Standards	**Contest Skilled Performance Standards** **CNCTECH 1.0 -** Apply basic machining skills per industry standards as set forth by the SkillsUSA technical committee. **CNCTECH 2.0 -** Demonstrate knowledge of CNC programming per industry standards as set forth by the SkillsUSA technical committee. **CNCTECH 3.0 -** Perform mathematical calculations as needed for calculating speeds,	**Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes** **Outcome 6.9** Computer Numerical Control (CNC) **Outcome 6.9** Computer Numerical Control (CNC) **Outcome 6.1** Measurement and Interpretation **Outcome 6.2** Layout and Planning	

	feeds, program coordinates, angles, radii and tangent points.	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