CNC 3-Axis Milling Programmer

Revised 1/13

Date	Friday Feb 23, 2024	**Orientation Time**	8:00 a.m. (CLOSED to instructors)
Location	Mahoning County Career & Tech Center 7300 N. Palmyra Rd Canfield, OH 44406	**Contest Time**	Immediately following orientation (OPEN 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.		
Testing	CNC program, Precision measurement inspection report		
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	• Professional Resume - Typed Hardcopy • Emergency Medical Forms (Contestants must have this to compete) • Haas simulator for each contestant • Non-programmable calculator • Blank note paper • Two pencils • Verification of Tool Training and Safety (Contest Specific See forms on SkillsUSA Ohio Web site		
Contest Standards	**Contest Skilled Performance Standards** **CNCM 1.0 -** Apply basic machining skills per industry standards as set forth by the technical committee. **CNCM 2.0 -** Demonstrate knowledge of CNC programming per industry standards as set forth by the technical committee. **CNCM 3.0 -** Perform mathematical calculations as needed for calculating speeds, feeds, program coordinates,	**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 **Outcome 6.3** Cutting	

	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