



Revised 1/13

# CNC 2-Axis Turning Programmer



<b>Date</b>	Friday Feb 23, 2024	<b>Orientation Time</b>	8:00 a.m. (CLOSED to instructors)
<b>Location</b>	Mahoning County Career & Tech Center 7300 N. Palmyra Rd Canfield, OH 44406	<b>Contest Time</b>	Immediately following orientation (OPEN contest)
<b>Scope of Contest</b>	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.		
<b>Testing</b>	CNC program		
<b>Eligibility</b>	1 contestant for every 50 paid members enrolled in program		
<b>Clothing</b>	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 and anti-slip properties (steel toes may be required – refer to <b>Provided by Contestant</b> 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.		
<b>Provided by Contestant</b>	<ul style="list-style-type: none"> <li>• Professional Resume - Typed Hardcopy</li> <li>• Emergency Medical Forms (Contestants must have this to compete)</li> <li>• Haas simulator for each contestant</li> <li>• Non-programmable calculator</li> <li>• Blank note paper</li> <li>• Two pencils</li> <li>• Verification of Tool Training and Safety (Contest Specific See forms on SkillsUSA Ohio Web site)</li> </ul>		
<b>Contest Standards</b>	<p><b>Contest Skilled Performance Standards</b></p> <p><b>CNCT 1.0</b> - Apply basic machining skills per industry standards as set forth by the technical committee.</p> <p><b>CNCT 2.0</b> - Demonstrate knowledge of CNC programming per industry standards as set forth by the technical committee.</p>	<p><b>Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes</b></p> <p><b>Outcome 6.9</b> Computer Numerical Control (CNC)</p> <p><b>Outcome 6.9</b> Computer Numerical Control (CNC)</p>	

	<p><b>CNCT 3.0</b> - Perform mathematical calculations as needed for calculating speeds, feeds, program coordinates, angles, radii and tangent points.</p>	<p><b>Outcome 6.1</b> Measurement and Interpretation <b>Outcome 6.2</b> Layout and Planning <b>Outcome 6.5</b> Turning</p> <p>Above Outcomes can be found in the following ODE courses: 176005 Machining with Industrial Lathes 176007 Computer Numerical Control Technology with Industrial Mills and Lathes</p>
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