

CNC 3-Axis Milling Programmer



	February 14, 2025		10.45 414
Data	•	Ovientation Time	10:45 AM
Date	Snow Date –	Orientation Time	(CLOSED to
	February 18, 2025		instructors)
			Immediately
	Vantage Career Center		Following
Location	818 N. Franklin Street	Contest Time	Orientation
	Van Wert, OH 45891		(CLOSED
			contest)
Scope of	This competition will assess the ability to program CNC milling machines,		
Contest	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	Professional Resume - Typed Hardcopy		
Contestant	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		
	<u>Provided at site</u> : 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.		
	<u>Disqualifications</u> : Cell phone in competition area, smart watches. Use of		
	internet or Artificial Intelligence (AI)		
Contest	Contest Skilled Performance	Aligned ODEW M	anufacturing
Standards	Standards	Career Field Tech	nical Content
		Standard Outcom	nes
	CNCM 1.0 - Apply basic machin	ing	
	skills per industry standards as	set Outcome 6.1 Mea	asurement and
	forth by the technical committe	ee. Interpretation	
	CNCM 2.0 - Demonstrate	Outcome 6.2 Layo	out and Planning
	knowledge of CNC programmir		out and riallilling
	Kilowiedge of Cive programmi	Outcome 6.3 Cutt	ting
		Outcome 6.5 Culi	ıııg

per industry standards as set forth by the technical committee.

CNCM 3.0 - Perform mathematical calculations as needed for calculating speeds, feeds, program coordinates, angles, radii and tangent points.

Dutcome 6.9 Computer Numerical Control (CNC)

Above Outcomes can be found in the following ODEW courses:

176006 Machining with Industrial Milling Machines

176007 Computer Numerical Control Technology with Industrial

Mills and Lathes