



CNC TECHNICIAN



Pennsylvania - District 2
Education . . . with a competitive side

Clothing Requirements

Official SkillsUSA khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)

Note: At the district level if a student is not able to wear the official SkillsUSA attire he/she may wear an outfit that would be acceptable in their specific field of study. *Please keep in mind that official SkillsUSA attire will be required at the state and national level.*

Eligibility

Open to active SkillsUSA members enrolled in programs with precision machining technology as the occupational objective.

Equipment and Materials: Supplied by host school:

1. Haas trainer Controller
2. G and M codes list

Equipment and Materials: Supplied by contestant:

1. All Students must have a one-page, typewritten résumé
2. Scientific calculator (non-programmable)
3. Pencil
4. Haas Manuel

Scope of the Contest – (Defined by the National Competition Regulations)

(District Competitions are meant to be a scaled down version of National Competition. It is important for the students to participate in a competition that will reflect a cross-section of the industry skills needed to prepare them for the state and national levels)

Knowledge Performance & Skill Performance

Contestants will demonstrate knowledge of CNC programming skills using a HAAS Controller from a NIMS related milling drawing and ability to create a setup sheet or router. A test will include related

knowledge and skill in the areas of engineering drawing interpretation, GD&T, technical math, machining practices, use of precision measuring tools.

CNC Technician Rating Sheet

Items Evaluated	Possible Points	Contestant Points
Written Test	30	
Written Program	20	
Practical Application	50	
Resume/Safety Penalty	(-5)	
Total	100	

Note: No cell phones or other electronic devices may be used at any time during a competition; this includes using a calculator function on a cell phone for competitions in which calculators are permitted.