



**CNC Technician  
(PMT)  
Manufacturing**

**Skilled and Technical Sciences Contests  
Contest Information**

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State Qualifying Exam: Yes

National Contest: Yes

Participation: Individual

**Contest Description**

Students compete in NIMS Level I and II manual machining skills and knowledge areas, including operation of manual milling machines, lathes, drill presses and surface grinders. Related knowledge and skills in the areas of engineering drawing interpretation, geometric dimensioning and tolerancing, technical math, machining practices. Using precision measuring/ hand tools and communicating verbally using proper industry terminology are also part of this competition.

**Tasks To Be Evaluated**

*CNC Programming Skills both milling and turning (type a CNC program on HAAS Simulator)*

*Process Control (Inspection using english and metric measuring tools)*

*CNC Programming Theory Exam*

*G,D&T Exam (G,D&T symbols and Control Frames)*

*Oral Professional Assessment (Resume)*

**Clothing Requirement**

National Requirement:

- 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.

State Requirement:

- National Requirement OR similar "like" clothing.

**Supplies Provided by Technical Committee**

*HAAS CNC Simulator*

*All measuring tools*

*Calculator*

*Notepad*

*Pencils*

**Supplies Provided by Contestant**

*Safety Glasses*

**Additional Information**

*The contest area will be available for students at noon Thursday April 19<sup>th</sup>. If students would like to practice or need help on the HAAS simulators. Students can checkin on Thursday from noon till 6:00.*