



**CNC Milling Specialist  
(CNCM)  
Manufacturing**

**Skilled and Technical Sciences Contests  
Contest Information**

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State Qualifying Exam: Yes

National Contest: Yes

Participation: Individual

**Contest Description**

This competition assesses the ability to write the CNC program for a part drawing and materials, determine tool offsets, set up the machine and produce a part on a milling machine. The competition includes a written test evaluating contestant knowledge of computer numeric control machining.

**Tasks To Be Evaluated**

*CNC Programming Skills (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.*