Missouri SKILLS USA .

CNC Turning & Milling Skills Contest

Hosted By State Technical College of Missouri

Skills USA State Competition 2023 CNC Milling & Turning Contest

Clothing requirement:

Appropriate job related clothing to match industry standards Leather work shoes to match industry standards Safety glasses with side shields to be worn at all times thru out contest (Note: No shorts, open-toed shoes or mid-riffs exposed)

Contest Guidelines

Typewritten resume, uploaded online

All competing Skills USA team members of the CNC turning and Milling competition@ State Tech will report to proper location at proper times or be disqualified from competition if tardy.

Pre Contest 8:00-9:00

Contestants will be given a number at the pre contest along with contest exams. Attendance will be taken and resumes submitted.

Programming 9:00-11:30

Contestants will be provided with dimensioned drawings of parts to produce when the competition is scheduled to begin.

Each participant will be given 2 hrs. to hand program the assigned part on windows 7 notepad software. The program will be saved on a flash drive.

Program debug and execution 12:00-3:00

Each contestant will be allowed 30 minutes to debug and run their program.

Contestants will be selected by number to debug (Setting graph on Haas) and run their program.

No program will be run until setting graph approved.

Mill tools and work offsets will be pre-set by the judges.

Lathe tooling and offsets will be pre-set by the judges.

Only 3 contestants at a time milling and 3 contestants at a time turning.

The final g-code program on the flash drive and part (with contestant #) must be submitted to the judges.

Fill out and return student survey.

Judges will monitor all portions of the competition.

When contestants finish machining parts or time is called, they will present to the judges in a timely fashion: all documentation required for the competition & parts w/ contestant #s written on parts w/ a permanent marker for evaluation.

1 Flash drive (to be return to judges upon contest completion)

Contest Notes:

Part Material for contest

Only HAAS machines will be available for the contest.

A viewing area will be roped off within the contest area. <u>NO ONE</u> will be allowed past this area except contestants, judges, and committee members. Thank you for your cooperation.

If a technical problem should arise w/ any equipment malfunction during the contest, the contestant should notify the acting chairman or a judge. If it is decided from that a malfunction has actually occurred, time will be stopped from that teams allotted time and the malfunction will be reconciled or an alternate piece of equipment will be used for the time that is remaining for the contestant. If any contestant argues or upsets any judges or helpers that contestant will be disqualified.