

# Automated Manufacturing Technology

## PURPOSE

To evaluate each contestant's preparation for employment in automated manufacturing and the team approach to problem solving work environment. To recognize outstanding students for excellence and professionalism in the field of automated manufacturing technology. Technical Competitors.

## ELIGIBILITY:

3 Person Team event; in accordance with the SkillsUSA Ohio Program Guidelines.

## ORIENTATION

Contest orientation – 10.45 am Lunch – 11.00 am The contest will start promptly at 11.45am. The Contest Area is CLOSED to observers until 12PM

## CLOTHING REQUIREMENTS

School Uniform with all identifying logos/markers covered (no jeans) or appropriate work attire: no jeans, no tennis or open toe shoes. Shirts cannot have logos, slogans or pictures, school names should be covered. Loose fitting clothing must be secured. Safety glasses must meet SkillsUSA Technical Standards.

## TOOLS PROVIDED BY CONTESTANTS

- One copy of a 1-page typed personal résumé
- CNC Machining Center (Mill)
- Control System for Mill (Computer if required)
- Table to mount Mill (if Mill is not mounted to a cart, tables for the Mill will not be provided by SkillsUSA)
- Vise and hold downs (stock will be 3" W x 4" L x 2" H)
- Parallels, to position top of stock to a minimum of ¾" above the vise
- Edge Finder or equivalent to square vise on Mill
- End Mills, flat, 2 or 4 flute: 1/16", 1/8", 3/16", and ¼" (tool change(s) will be required)
- Dial or Vernier calipers to measure 0" to 4"
- Necessary hand tools for your installation including safety glasses (3 pair)
- Two computers and software for CAD/CAM programs
- Backup copies of the software
- Empty USB Drive
- Computers must be capable of transferring data from one computer to another with a removable media device
- One potter/printer to plot/print CAD drawings and 8 ½" x 11" paper
- Power Strip with enough outlets to connect all your equipment, must be circuit breaker protected
- 25' UL approved extension cord (only one connection to power per team)
- Calculator
- #2 pencils (sharpened)
- One copy of a typed personal résumé





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## tools provided by technical committee

All forms for documentation and milling stock will be provided by the Technical Committee. Note: Contact the Ohio SkillsUSA office to arrange a time to setup on Monday, April 6, 2020.

### **In addition to the above Equipment to be provided by each team:**

The Automated Manufacturing Technology is a work-intensive and time-consuming contest. The 4 hours allotted for this contest is at a minimum adequate. Therefore, it is necessary to be ready to start the contest on time. Orientation will be at 10:00 AM and the contest will start at 10:30 AM and go until 2:30 PM on Tuesday, April 7, 2020. Please note that lunch will not be provided by SkillsUSA Ohio this year.

In view of the complexity and length of this contest, it is required that your equipment is set up and checked out before the contest starts. You and your instructor may enter the contest area the morning of the contest, before it starts, for the purpose of setting up your equipment and ensuring its serviceability. Once you have ensured your equipment is working, you may leave the contest area.

Devices supplied by the technical committee will not be disassembled or opened for any reason unless explicitly directed to do so by a contest official. Disqualification will result if this is not adhered to.

## Special Information

No smart watches or phones are permitted during the contest.

**Beginning 2020 ALL SkillsUSA Ohio State Championships Contests will require a short interview component. Students should be prepared with basic job interview skills.**

## Scope of the contest

Revised March 2020, the contest will be judged based on the criteria established in the 2019 – 2020 SkillsUSA National Technical Standards.