Automated Manufacturing Technology

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

Contest Location	▪ C-Hall
Eligibility	▪ Please refer to the National Technical Standards for this contest. • Schools may send one competitor or team for every 50 paid SkillsUSA members based on local competition enrolled in a program where the scope of the contest described in the SkillsUSA Technical Content Standards reflects a major component of the program. • *Team of 3 (three)*
Clothing	<u>Work/School Attire:</u> School uniform with all identifying logos/markers covered. Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Work shoes or boots with hard sole or anti-slip properties. Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered.
Testing	▪ Students be prepared to take a written SkillsUSA knowledge test. (Required for all contestants prior to contest day)
Provided by Contestant (Tool List)	▪ One copy of a 1-page typed personal resume ▪ 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 Ohio) ▪ Vise and hold downs (stock will be 3″ W x 4″ L x (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 program - 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 plotter/printer to plot/print CAD drawings and 8 ½ "x 11" paper - Power Strip with enough outlets to connect all your equipment, must be a circuit breaker protected 25' UL approved extension cord (only one connection to power per team) - Calculator #2 pencils (sharpened) - 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)
Special Notes	- Exhibit Halls do not open to observers until 12:00 pm. - This contest is work-intensive and time-consuming contest. The 4 hours allotted for this contest is at the minimum adequate. Therefore, it is necessary to be ready to start the contest on time. It is required that your equipment is setup 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 service ability. Once you have ensured your equipment is working, you may leave the contest area. - Please ensure you have tried and tested CAD software when disconnected from your school's WIFI. If necessary, plan to bring a hotspot to the contest. TEST THIS PRIOR TO ARRIVAL. - Devices supplied by the technical committee will not be disassembled or opened for any reason unless explicitly directed to do so by the contest official. Disqualification will result if this is not adhered to. - No smart watches, phones, or earbuds are permitted during the contest and/or in contest. - No contact with anyone outside of the contest area once the contest begins.

	- No inappropriate communication between contestants such as verbally degrading another contest. - No cheating on any portion of the contest such as informing another contestant of the skills/test prior to competing.
National Technical Standards	- Please Refer to the 2022-2023 National Technical Standards for all contests. All standards included may be tested in any competition. - In conjunction with National Standards, violations may result in student loss of contest.
Resume	All SkillsUSA Ohio State Championship Contest will require a short interview component. Students should be prepared with basic job interview skills.