

Robotics & Automation Technology



Purpose - To evaluate each contestant's preparation for employment in the emerging arena of robotics and automation with emphasis on the team approach to problem-solving in a work environment. To recognize outstanding performance in the use of new work styles and technology by contestants.

Contest Location	<ul style="list-style-type: none"> ▪ C-Hall
Eligibility	<ul style="list-style-type: none"> ▪ Please refer to the National Technical Standards. ▪ 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. ▪ <i>Team of 2</i>
Clothing	<p><u>Work Attire:</u></p> <ul style="list-style-type: none"> ▪ 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 a hard sole or anti-slip properties (steel toes may be required – refer to Provided by Contestant section below). 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	<ul style="list-style-type: none"> ▪ Please be prepared to take a written SkillsUSA knowledge test. (Required for all contestants prior to contest day)

<p>Provided by Contestant (Tool List)</p>	<p><u>Personal Tools</u></p> <ul style="list-style-type: none"> ▪ Industrial Robot (6-Axis) with safety enclosure, area scanner, or light stack and gripper with the ability to open at least ½" (any collaborative robots must use a teach pendant. You may NOT manually move the robot into position) ▪ Access to a minimum of 6 I/O points (3 In/3 Out) ▪ Air Supply (if required for End-of-Arm-Tooling) ▪ Small Phillips and Straight Screwdriver ▪ Wire Cutters ▪ Wire Strippers ▪ Pliers ▪ Needle Nose Pliers ▪ Measuring device (tape measure, calipers, ruler, etc.) ▪ 12" Straight Edge ▪ Painters/Masking Tape ▪ Two (2) or more pens/pencils (sharpened) ▪ Laptop ▪ Safety Glasses ▪ One hard copy of a 1-page typed resume <p>*Contest evaluator will supply the objects for the competition.</p>
<p>Special Notes</p>	<ul style="list-style-type: none"> ▪ In view of the complexity and length of this contest, it will be necessary to be ready to start the contest on time and it is required that your equipment is setup and checked out before the contest starts. 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. ▪ All robots must be either in a safety enclosure, have an area scanner, or have a light stack indicating its run status. ▪ Devices supplied by the technical committee will not be disassembled or opened for any reason unless explicitly directed to do so by the contest officials. 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.

	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ Please refer to the 2022-2023 National Technical Standards for all contests. Any and all standards included may be tested in any competition. ▪ In conjunction with National Standards, violations may result in student loss of contest.
Resume	<ul style="list-style-type: none"> ▪ All SkillsUSA Ohio State Championship Contest will require a short interview component. Students should be prepared with basic job interview skills. ▪ All contestants must have a hard copy of a one (1) page personal resume.