



Robotics and Automation Technology



Contest Date:

March 8- 12, 2021

(orientation 10AM on March 8- Contestant Schedule will be announced during orientation)

(One Session per day 4-6 Teams per Session)

Contest Type: VIRTUAL

(all contest type MUST knows are listed on the website. YOU NEED TO BE FAMILIAR WITH BOTH THIS DOCUMENT AND THAT DOCUMENT)

Zoom Contest Link:

March 8:

<https://ohioskillsusa-org.zoom.us/j/97180920247?pwd=STBVNUg5MHZINExFRlllQI9vY3RGdz09>

Meeting ID: 971 8092 0247

Passcode: 533419

March 9:

<https://ohioskillsusa-org.zoom.us/j/98000931856?pwd=UTNpYzZobVRzRkhXbVgxemNhcU52UT09>

Meeting ID: 980 0093 1856

Passcode: 950112

March 10:

<https://ohioskillsusa-org.zoom.us/j/96627889345?pwd=SZlIdkw5V2g0NkNneWRlYXk2dVI2UT09>

Meeting ID: 966 2788 9345

Passcode: 351376

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March 11:

<https://ohioskillsusa-org.zoom.us/j/96773711376?pwd=MXdFeXZGbGVCSkZWYW5aZUdaQjJDdz09>

Meeting ID: 967 7371 1376

Passcode: 030175

March 12:

<https://ohioskillsusa-org.zoom.us/j/92946247637?pwd=R1ZnVVI1R3o0NmFISXljL1lvMDRwUT09>

Meeting ID: 929 4624 7637

Passcode: 939987

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.

ELIGIBILITY:

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

ORIENTATION

Orientation will be at 10 AM, contestants will be given their contest day and time during orientation. The contest will start promptly at 10:30 am. The Contest is CLOSED to observers.

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

The Robotics and Automation Competition is a work-intensive and time-consuming contest. The 2 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 12:30 PM on the date provided by the Contest Coordinator. (The contest will be broken out into small sessions and will be ran the week of March 8 – 12, 2021)

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.

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 a contest official. Disqualification will result if this is not adhered to. 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
- A Camera View of the Contestant and work area will be needed so that the judges can always view both the contestant and the work field.
- The instructor will also need to be visualized on camera to ensure the integrity of the contest



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- COACHING OF ANY KIND WILL EQUAL A DISQUALIFICATION
- Virtual Judges may ask the contestant to spin the camera 360 degrees at any time
- **Contestants will receive a sealed box with additional contest items, this box is not to be opened until told to do so by the judges, if the box is opened prior it will result in disqualification.**

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 are required.

TOOLS PROVIDED BY CONTESTANTS

- One copy of a 1-page typed personal résumé
- Industrial Robot (6 Axis) w/ 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 3 I/O points
- UL Approved Extension Cord (25' Minimum)
- Power Strip w/ 6 outlets, must be circuit breaker protected
- Air Supply (if required for End-of-Arm-Tooling)
- Small Phillips and Straight Screwdriver
- Wire Cutters
- Wire Strippers
- Measuring Device (Tape Measure, Calipers, Ruler, etc.)
- 12" Straight Edge
- Painters/Masking Tape
- 2 or more Pens/Pencils (sharpened)
- Laptop
- Safety Glasses
- Camera/Microphone for Virtual Contest
- 1 page Digital Resume

* Contest evaluator will supply the objects for the competition.

TOOLS PROVIDED BY TECHNICAL COMMITTEE

- **Contestants will receive a sealed box with additional contest items, this box is not to be opened until told to do so by the judges, if the box is opened prior it will result in disqualification.**

SCOPE OF THE CONTEST

Revised January 2020, the contest will be judged based on the criteria established in the 2020 – 2021 SkillsUSA National Technical Standards.