

SkillsUSA Events for

# Electronics Technology

*Scroll down for Contest Quick Guides*

- Electronics Technology
- Urban Search and Rescue
- Robotics and Automation
- Mobile Robotics
- Telecommunications Cabling

**\*FOR FULL CONTEST OUTLINES, PLEASE REFER TO THE STATE OR NATIONAL STANDARDS.**

**\*NATIONAL STANDARDS CAN ONLY BE ACCESSED BY INSTRUCTORS WHO HAVE A CURRENT PROFESSIONAL MEMBERSHIP.**

<b>Contest Name:</b>	<b>Electronics Technology</b>
<b>Shop Alignment:</b>	Electronics
<b>Eligibility:</b>	All Students
<b>Contest Type:</b>	Individual
<b>In-House Competition:</b>	YES
<b>District Event:</b>	YES—written test
<b>State Event:</b>	YES—skill based
<b>National Event:</b>	YES—written, interview, and skill components

**FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.**

**Official Contest Description:**

“The contest is divided into five sections: customer service exam, written exam, soldering, breadboarding and troubleshooting. Contestants’ will demonstrate their knowledge of analog and digital circuitry; ability to troubleshoot electronic circuits; ability to construct and test experimental circuits; and, ability to design and select circuit components. All aspects of the competition test contestants’ abilities to use and calibrate electronic equipment, record and organize data, and demonstrate proper safety practices” (Contest Descriptions).

Source: “Contest Descriptions.” SkillsUSA, [www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/](http://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/).

<b>Contest Name:</b>	<b>Urban Search and Rescue</b>
<b>Shop Alignment:</b>	Electronics/Engineering
<b>Eligibility:</b>	All Students
<b>Contest Type:</b>	Team (2 students)
<b>In-House Competition:</b>	YES
<b>District Event:</b>	YES—written test
<b>State Event:</b>	YES—skill based
<b>National Event:</b>	YES—written, interview, and skill components

**FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.**

**Official Contest Description:**

The purpose of this event is “to evaluate team members’ skills and preparation for employment in fields related to and including robotics, engineering, automation, manufacturing, electronics, and emergency services. To recognize outstanding performance by participants in scenarios that require problem solving and teamwork in a real-world situation” (Contest Descriptions).

Source: “Contest Descriptions.” SkillsUSA, [www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/](http://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/).

**Contest Name:**                    **Robotics and Automation Technology**

**Shop Alignment:**                Electronics or Engineering

**Eligibility:**                        All Students

**Contest Type:**                    Team (2 Students)

**In-House Competition:**        YES

**District Event:**                  YES—written test

**State Event:**                      YES—skill based

**National Event:**                YES—written, interview, and skill components

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**Official Contest Description:**

This event “challenges two-person teams to demonstrate operation of a five-axis servo-robot along with a set of sensors and motorized devices to resolve a simulated production process problem. Teams set up and demonstrate operation of a robotic work cell from a word problem. Contestants are required to create a flow chart and sequence of operation. Teams are also judged on efficiency, speed and teamwork” (Contest Descriptions).

Source: “Contest Descriptions.” SkillsUSA, [www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/](http://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/).

<b>Contest Name:</b>	<b>Mobile Robotics Technology</b>
<b>Shop Alignment:</b>	Electronics
<b>Eligibility:</b>	All Students
<b>Contest Type:</b>	Team Event (2 students)
<b>In-House Competition:</b>	YES
<b>District Event:</b>	YES—written test
<b>State Event:</b>	YES—skill based
<b>National Event:</b>	YES—written, interview, and skill components

**FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.**

**Official Contest Description:**

“The contest will test the ability to perform, exhibit and compile skills and knowledge from the following list of competencies determined by the SkillsUSA Mobile Robotic technical committee. It will evaluate each contestant’s preparation for employment in the field of robotics with emphasis on the team approach to problem solving in a work environment” (Contest Descriptions).

Source: “Contest Descriptions.” SkillsUSA, [www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/](http://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/).

<b>Contest Name:</b>	<b>Telecommunications Cabling</b>
<b>Shop Alignment:</b>	Electronics
<b>Eligibility:</b>	All Students
<b>Contest Type:</b>	Team Event (2 students)
<b>In-House Competition:</b>	YES
<b>District Event:</b>	YES—written test
<b>State Event:</b>	YES—skill based
<b>National Event:</b>	YES—written, interview, and skill components

**FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.**

**Official Contest Description:**

“The contest will test the ability to perform, exhibit and compile skills and knowledge from the following list of competencies determined by the SkillsUSA Mobile Robotic technical committee. It will evaluate each contestant’s preparation for employment in the field of robotics with emphasis on the team approach to problem solving in a work environment” (Contest Descriptions).

Source: “Contest Descriptions.” SkillsUSA, [www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/](http://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/).