Electronics Technology Contest Information

Tentative-Information is subject to change, check back often.

NO SUBSTITUTIONS WILL BE ALLOWED AFTER FRIDAY, MARCH 28th, 2025

THERE WILL BE NO SUBSTITUTIONS ALLOWED ON-SITE AT THE CONFERENCE*

TIME/DATE/LOCATIONS

Contestants will need to arrive to the Arvest Business Center (formerly know as the Cox Business Center) on Monay, April 28, 2025, and check in the Robotics & Automation Technology contest area at 8am.

TESTING

Contestants will be judged on their SkillsUSA knowledge through the Professional Development test and knowledge test. Testing will be completed online and proctored through their technology centers. Online testing opens March 14, 2025, and closes Apil 4, 2025. No provisions are being made for make-up testing on-site.

RESUME- Change to submission type please for 2025 please read

 All contestants will submit a digital resume prior to contest day. Contestants will receive an email to the address used to register the contestant for contest with instructions and link to access the SkillsUSA Competitor Portal page. The email will contain contestant's username and contestant number, which are required to login to the Competitor Portal. Deadline to submit resume is April 22, 2025.

AWARDS CEREMONY

Winners will be recognized at the General Session on Tuesday morning, April 29th, at 9am. All competitors must wear official SkillsUSA dress to the Awards Session, where winners are announced. Competitors who are not dressed appropriately or lack official attire will be denied access to the awards stage. Students must be present when their contest is announced. If a student is improperly dressed, absent, or misses their contest being called, the production will not be paused for any reason, and they will forfeit their opportunity to go on stage to receive the award. No exceptions will be made. No hats or sunglasses will be allowed to be worn on stage.

• Official dress for men: Official blazer, jacket or sweater; black dress slacks; white dress shirt; plain black tie with no pattern or SkillsUSA black tie; black socks and black shoes.

• Official dress for women: Official blazer, jacket or sweater; black dress slacks or knee-length skirt with business like white, collarless blouse or white blouse with small, plain collar that may not extend onto the lapels of the blazer, and black dress shoes.

Clothing Requirements
All students will be required to wear appropriate clothing representative of their occupation. No school logos or anything that shows your name allowed on clothing. Safety glasses are required at all times while in the contest area.

INDUSTRY AWARDS
As agreed at August Conference each instructor is requested to secure a minimum of $50.00 in prizes for each student that you bring to the State SkillsUSA Championships. Please contact your **Awards Chairman** for details and to let him/her know of industry awards you have secured. These awards should be labeled with the name, address, and contact person for the donating industry so that the contestant they are awarded to can send an appropriate expression of his or her appreciation.

*** Prizes are the responsibility of the individual contests. Prizes are not guaranteed and are not supplied at the SkillsUSA Oklahoma state level.

Please contact the chair with prizes that will need to be checked in. Each participating school is expected to furnish an industry award. Industry awards should be labeled with the name and address of the award supplier so that an appropriate "Thank you" may be sent, must be accompanied by an industry award donation information sheet (available on the Oklahoma SkillsUSA website). Please bring prizes to the industry awards area at the Arvest Convention Center Conference Hall, Sunday, April 27th between 12-4pm or Monday, April 28th between 8am-4pm.

TOOLS AND SUPPLIES
Construction materials will be provided at the contest site. New components for breadboarding will be provided, which contestants will keep at the conclusion of the contest. Contestants will again be constructing a kit which they may keep after the contest is over. Contestants will need to bring the following:

• **SUPPLIED BY THE TECHNICAL COMMITTEE:**
- Soldering kit (less solder)
- Breadboarding components
- Breadboard
- Alcohol (bulk, contestants will need own dispensers)

SUPPLIED BY INSTRUCTOR FOR EACH CONTESTANT (NO SHARING):
- Pre-stripped breadboard connecting wires, various lengths
- At least 2-NEW, FRESH 9 Volt transistor batteries
- Volt-Ohm-Milliammeter (VOM or DMM)

• 50 MHz Dual Trace, Dual Time-Base Oscilloscope and Probes (TWO each X1 and X10 or TWO switchable probes)
• Multi-outlet strip (power bar) with 6 ft. Cord
 NON-PROGRAMMABLE Scientific calculator (exp. notation, sqr, sqr. root, log, etc.)
• Standard tool list for Electronics (as listed in SkillsUSA Championships Technical Standards)
• Anti-static wrist strap and work mat
• Soldering iron and supplies (solder, acid brushes, wick, solder-extractor, and/or desoldering station)
• Soldering ventilation station (Tenma 72-5030 or equiv.)
• Flux or flux pens
• Dispenser for alcohol (pump up bottle and acid brushes preferred), and KimWipes, if desired
• Eye Protection (ANSI approved goggles or safety glasses with side shields or prescription glasses with side shields
• 2 - #2 Lead Pencils
• **OPTIONAL ITEMS, HIGHLY RECOMMENDED, WILL NOT BE PROVIDED:**
• Third hand, small bench vise, or PC board vise to hold board while soldering

CONTEST DESCRIPTION AND SCORING

The contest will consist of an online written test covering knowledge of electronics, online SkillsUSA knowledge test, a kit construction component, a breadboarding component and an oscilloscope use component. The written test will contribute 10% to the total score, the kit construction (soldering) 30%, the breadboarding 30%, and the oscilloscope use 27.5%. The SkillsUSA (PDP) knowledge test 2.5% to the total score only, which is consistent with National SkillsUSA competition. Other tie breakers will be (in order): written technical test score, breadboarding, kit building and oscilloscope.

Breadboarding standards and ANSI/J-STD-001, the **Joint Industry Standard for Electrical and Electronic Assemblies**, both included in the **General Instructions**, will be used to judge breadboard construction and soldering skills.