

# Electrical Construction Wiring

**CONTEST DATE & LOCATION:** Refer to the Kansas State Championship Conference Packet

**PURPOSE:** The Electrical Construction Wiring event will allow each contestant the opportunity to perform in a practical work environment. Each contestant will have the opportunity to use their acquired electrical wiring skills to construct an electrical wiring design, using electrical blue prints, written specifications and verbal instructions based on the National Electrical construction Wiring standards in accordance with the National Electrical Code.

**ELIGIBILITY:** Open to active SkillsUSA members enrolled in programs with electrical wiring or electrical trades as the occupational objective

**CLOTHING REQUIREMENT:** Unless the contest chair says otherwise, students are required to wear the Official SkillsUSA Kansas T-shirt and blue jeans (no tears, holes, or bagginess) clean and neat with appropriate shoes for contest or Official SkillsUSA khaki work shirt and pants, black or brown leather work shoes, safety gloves and safety glasses.

*\* Safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)*

Official SkillsUSA khaki attire



**NOTE:** The Official Kansas State T-shirt will be mailed to schools prior to the competition.

## KANSAS STATE CHAMPIONSHIPS (KSC) CONTEST UPDATE



### CONTEST PREPARATION:

#### Contest Schedule

8:00-8:30	Registration
8:30-9:00	Welcome and orientation for all contestants Turn in resume Organize into groups
9:00-10:30	<b>1<sup>st</sup> Rotation</b> <b><u>GROUP A</u></b> -Written Test Room #2 <b><u>GROUP B</u></b> -Drawing and estimating Room #1
10:35-12:05	<b>2<sup>nd</sup> Rotation</b> <b><u>GROUP A</u></b> -Drawing and estimating Room #1 <b><u>GROUP B</u></b> - Commercial Test Room #5
12:05-12:45	<b>LUNCH</b>
12:45-1:00	All Contestants report to room #3
1:00-2:30	<b>3<sup>rd</sup> Rotation</b> <b><u>GROUP A</u></b> - Commercial Test Room #5 <b><u>GROUP B</u></b> - Residential Test Room #2
3:00-4:30	<b>4<sup>th</sup> Rotation</b> <b><u>GROUP A</u></b> - Residential Test Room #5 <b><u>GROUP B</u></b> - Written Test Room #2
4:30-5:00	Judges debrief contestants

Results will be announced at the Skills USA Championship Awards Ceremony, on Friday.

#### **Additional notes:**

1. Breaker box covers are not placed on so judges can see wiring pathways.
2. Workbench area can be shared with same contestant if they are not from the same school.
3. Care needs to be taken as other contestants will be working on the other side of the wall.
4. Written test will only have 90-minute window to complete.
5. When filling out forms be sure to check for proper form.
6. There are extra components in each box of supplies-be warned.
7. Hard hats and safety glasses are required. Visit with me if you need some.

**Tools required for Electrical Contest**

- 1.** 2-tongue and groove pliers
- 2.** Side cutting pliers
- 3.** Diagonal cutting pliers
- 4.** Long nose pliers
- 5.** Assorted screwdrivers
- 6.** 10" crescent wrench
- 7.** Hammer
- 8.** Center punch or scratch all
- 9.** Electrician's knife
- 10.** Tape measure
- 11.** Pencils
- 12.** Hacksaw
- 13.** Keyhole Saw
- 14.** Torpedo level
- 15.** Wire strippers
- 16.** Hex key wrenches
- 17.** Conduit reamer
- 18.** Cordless Drill and Driver (Extra Battery)
- 19.** Set of drill bits
- 20.** ¾" Spade bit or auger bit
- 21.** Current NEC code book
- 22.** Hard hat
- 23.** Safety Glasses
- 24.** Gloves
- 25.** Tool belt with pouch
- 26.** ½" EMT Bender