

**SkillsUSA South Carolina**  
**Electrical Construction Wiring Contest**  
**Friday, March 25, 2022 (Greenville Convention Center)**

**Contest Chair Contact Information**

Name: Dan Enfinger

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**Note: Each school is allowed to have up to 4 contestants**

**All competition materials, i.e. wire devices, tools, etc., must be supplied by the competitor and his/her school.**

**Friday, March 25, 2022 – State Competition Schedule**

7:30 A.M. – 8:30 A.M.	Registration / Badge Pick-up (at Registration Desk)
8:30 A.M. – 8:50 A.M.	Opening Ceremony
9:00 A.M. – 10:00 A.M.	Testing (in testing room) followed by Orientation at contest area. Contestants will have 45 minutes to complete the test once it begins. There will be a set start time for ALL competitors.
10:00 A.M. – 11:45 A.M.	Hands on Project
11:45 A.M. – 12:05 P.M.	Lunch (See last page concerning lunch)
12:05 P.M. – 2:00 P.M.	Hands on Project
12:15 P.M. – 12:40 P.M.	Instructor Meeting: to discuss changes/improvements.
2:00 P.M.	Contest Concludes
2:00 P.M. – 3:00 P.M.	Judging and tallying of scores
3:00 P.M. – 4:00 P.M.	Breakdown and Clean Up
5:00 P.M.	Awards / Closing Ceremony Begins (arrive early)

Schedule changes are possible. If changes are made, you will be notified by March 15, 2022.

## State Electrical Competition Materials List

<u>Amount</u>	<u>Description</u>
1	GFCI Duplex Grounded Receptacles
2	3 Way Grounded Switches
4	Single Pole Switches
3	Plastic Keyless Light Receptacles
3	Duplex Grounded Receptacles
2	4-way grounded switches
1 Box	Wire Staples
1 Box	Ground Pigtail Wire Nuts/Crimp Bonding Grounds
40	Red Wire Nuts
20	Yellow Wire Nuts
3	40-watt light bulbs
1	240-volt receptacle, example a dryer receptacle (flush mount)
1	3-to-4-foot pigtail (SO) cord with 120v 3 prong male plug on one end, this will be used to test the project.

**NOTE: Conduit will be provided for the competition.**

### Boxes for State Competition

<u>Amount</u>	<u>Description</u>
3	Two Gang Nail on Boxes (Plastic)
8	One Gang Nail on Boxes (Plastic)
3	Round Nail on Ceiling Boxes (Plastic)
5	½" KO 4x4 square metal boxes

## **Conduit Connectors / Screws**

<b><u>Amount</u></b>	<b><u>Description</u></b>
10	½" one-hole straps with ¾" #10 sheet metal screws
10	½" EMT connectors
8	½" Romex connectors

## **Wire**

<b><u>Amount</u></b>	<b><u>Description</u></b>
15 feet	10/3 with ground
80 feet	14/2 with ground
25 feet	14/3 with ground

\*\*Instructors will be given a copy of the project at the conclusion of the competition for their record. \*\*

**\* Resumes are required to be submitted in advance and electronically according to the instructions on the "Contest Update" page on the state website.\***

## **Additional Equipment**

- Standard Electricians Tool Box or Tool Pouch & Tools (i.e. Lineman Pliers, Wire Strippers, Hammer, Drill, Screwdrivers, Tape Measure, etc.)
- Digital Multimeter (Optional)
- ½" EMT Bender
- Hack Saw

## **Attire**

- ALL contestants will wear khaki pants and official SkillsUSA khaki shirt (with skills logo).
- Shirt must be tucked in!
- NO sagging of the pants!
- No tennis shoes!
- Work Boots or Safety Shoes!
- Hard Hats!
- Safety Glasses!
- NO School Logos or ANY Identifying school names allowed to be worn by competitors or visible on equipment/tools!
- Sponsor Logos may be worn on shirts and Hard hats.

**NOTE: POINTS WILL BE DEDUCTED IF CONTESTANT DOES NOT HAVE PROPER ATTIRE PER SKILLSUSA.**

## **Written Test Outline**

- General Construction Industry Safety Knowledge (5) Questions
- General Electrical Safety Knowledge (8) Questions
- Residential NEC Knowledge (5) Questions
- Residential Wiring Knowledge (10) Questions
- Commercial Wiring Knowledge (10) Questions
- Industrial Wiring Knowledge (5) Questions
- Mathematical Calculations (5) Questions
- Electrical Theory/OHM's Law (2) Questions
- Total (50) Questions

\*\* Instructors will be given a copy of the written test at the conclusion of the competition for their record. \*\*

### **Competition Supplemental Information**

- It is the responsibility of all instructors to ensure competitors have food for lunch. There is a canteen on site. The Greenville Convention Center does not allow outside food beyond perhaps snacks.
- It is the responsibility of all contestants to breakdown and clean up their wiring projects. Any contestant in violation will have **50 Points deducted** from their overall score.