2025 Area 1 SkillsUSA

Residential Wiring competition

Parts list and suggested tool list

Contestants,

This year we are going to be changing the competition because of time constraints. We will be having 3 stations you need to compete. Station one is a code quiz (we will be making this up using the 2020 NEC), Station two is EMT bending (you need to place your pieces of conduit in a jig), and Station 3 is a residential wiring circuit. See you soon.

Parts list:

|  |  |  |
| --- | --- | --- |
|  | quantity | Description of part |
| 1 | 1 | 11/2" deep oct. box with side bracket and n.m. clamps |
| 2 | 1 | 2 gang plastic nail on box |
| 3 | 2 | single gang nail on box deep |
| 4 | 1 | 4x4x2 1/8" steel box w/ nm clamps and side bracket |
| 5 | 1 | 1/2" raised single gang plaster ring |
| 6 | 1 | 15 amp duplex receptacle |
| 7 | 1 | 15 amp single pole switch |
| 8 | 2 | 15 amp three way switches |
| 9 | 1 | 15 amp four way switch |
| 10 | 2 | keyless light fixture |
| 11 | 20 | wirenuts red and yellows |
| 12 | 25 | NM staples (no stackets) |
| 13 | 6 | Green wirenuts or Buchanan chrimps |
| 14 | 25' | 14/2 NM-B |
| 15 | 20' | 14/3 NM-B |
| 16 | 3 | Grounding screws (no grounding clips) |
| 17 | 10 | 11/4" drywall screws |

**NOTE: ½” E.M.T. will be provided**

**The 2020 NEC Electrical code book and a conduit bending guide will be allowed for this competition.**

# Recommended Tool list

|  |  |
| --- | --- |
|  | Description of tools |
| 1 | Safety Glasses, work boots, and hardhat |
| 2 | min. 16' Measuring tape |
| 3 | Electrician's knife or Utility knife |
| 4 | Electrical wire strippers |
| 5 | #2 Phillips screwdriver |
| 6 | Straight-slot screwdriver |
| 8 | needle-nose pliers |
| 9 | 9" lineman pliers |
| 10 | Hammer |
| 11 | 1/2" EMT bender |
| 12 | EMT REAMER |
| 13 | Tool pouch with belt |
| 14 | Scratch Awl |
| 15 | calculator, pens, and pencils |
| 16 | 32 tooth hack saw |

## The use of cordless drill, magic markers and tubing cutters are prohibited

Any Questions you can reach Dan Bowen at

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Good luck to all contestants.