

## Electrical Construction Wiring

Contest Update – March 25, 2021



### Preparatory Information

Contestants will receive plans in a sealed tube mailer. The mailer must remain sealed until the beginning of the competition. Contestants will login to the live Zoom meeting and complete the assigned project. The advisor must be present for safety purposes only and may not interact with the contestant at any time.

Schools will be required to obtain their own materials. Each school will receive funding from Lowe's to offset the cost of materials. Gift card information will be sent to each instructor with specific instructions on activation. Supply list will be provided by April 29.

A mock wall is required for this competition. An existing mock wall in a classroom or lab may be used, provided it has space for students to exhibit the necessary skills. Students may not use existing holes in a mock wall for the competition.

The tool list provided below is a minimum. Competitors may bring other hand tools but no power tools (except the battery drill) are allowed.

The contestant must wear appropriate clothing and personal protective equipment during the performance of the competition. Protective equipment includes approved safety glasses and hard hats. The contestant will not be permitted to compete in the wiring competition if they do not have the required safety gear, which is a hard hat and safety glasses.

Cell phone are not permitted during the contest. Cell phones and similar devices may not be used as a calculator.

The 2020 NEC Code Book may be used during the online written exam and the competition as a resource. Students may not share copies of the code book during the competition or exam.

A Second Camera Proctor is required for this contest. They will provide additional angles and information for the remote judges.

Contestants may also be required to submit photos of their final product. Submitted files must be in the designated format and named according to the Virtual General Regulations.

### Tool List

Each contestant must have the following equipment, tools and material for the competition. The care use and transportation of the tools and equipment to and from the contest is the responsibility of the contestant. All tools must meet proper OSHA safety standards. Each contestant must have tools, sharing of tools is not permissible.

Required equipment and materials:

- 2020 National Electric Code Book
- 2 pair of channel locks

- 1 MC cutter (roto-splitter or equal)
- 8" diagonal cutters (angle head)
- 9" linesman pliers
- 16 oz claw hammer
- 8" needle nose pliers
- 10" split joint pliers
- Torpedo level
- 603-3 Phillips screwdriver #1
- 603-4B Phillips screwdriver #2
- 605-4 ¼" screwdriver 4"
- 605-6 ¼" screwdriver 6"
- 725 Keyhole saw
- 25' tape measure
- 11045 Wire stripper/cutter
- 1550-11 Electricians Knife
- 85191 Reaming screwdriver
- 650 Scratch awl
- 1412 Kurved NM tool
- 32476 5-in-1 screwdriver
- 70570 Hex key set
- Tool pouch
- Tool belt
- Cordless drill with assorted bits
- Auger drill bit
- ½" EMT bender
- Hack saw
- Hammer holder
- Battery powered drill motor 3/8" with 3/4" butterfly bit and 1/4" steel bit
- Safety glasses
- Hard hat
- Latest edition of the National Electrical Code (as of January 2021)
- Supplies for drawing ladder diagram (pencil, straightedge, etc)
- Calculator (may not be a cell phone)