

# GENERAL INSTRUCTIONS



## STATE ELECTRICAL CONSTRUCTION WIRING Ver 1.1 2012\_03\_19

### INSTRUCTIONS

**OPEN THIS BOOKLET IMMEDIATELY  
AND READ THE INSTRUCTIONS  
THOROUGHLY.**

## SAFETY INSTRUCTIONS

You ***MUST*** wear eye protection and hard hat at all times while working in the lab. Use caution when cutting wire to reduce the risk of injury to yourself and others. Failure to wear eye protection and hard hat as required will result in immediate disqualification.

## CONTEST DESCRIPTION

The contest consists of FOUR (4) parts. You will have a specific time to finish each part. When time is called, you should *immediately* stop and wait for a Judge to collect your work. Failure to stop immediately may result in disqualification, at the Judges' option. **Highlighted items will be taken on-line prior to coming to the conference.**

<b>PART ONE, WRITTEN PDP TEST</b>	<b>Tie Breaker</b>	<b>15 Minutes</b>
You will be required to complete a TWENTY question, multiple-choice test covering SkillsUSA knowledge.		

<b>PART TWO, WRITTEN TECHNICAL TEST</b>	<b>20 PERCENT</b>	<b>1 HOUR</b>
You will be required to complete a FIFTY-question, multiple-choice test covering aspects of electrical trade- and motor control-related occupations.		

<b>PART THREE, RESIDENTIAL WIRING</b>	<b>40 PERCENT</b>	<b>2 HOURS</b>
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You will be required to wire a typical stud wall using plastic nail-on boxes or gangable metal boxes and NMT. Connections will be made to a standard residential breaker panel. You will be graded on accuracy, conformance to Code, Safety, heights and depths of devices, connections to boxes and devices, type of boxes used, grounding, wire connections, box neatness, connections to panel, ability to work non-destructively, the overall craftsmanship used in the construction, and the functional accuracy of the completed project. A copy of the tally sheet that judges will use to grade your project will be included so you can see how you will be judged.

<b>PART FOUR, COMMERCIAL WIRING</b>	<b>40 PERCENT</b>	<b>2 HOURS</b>
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You will be required to wire a flat panel wall using surface mount boxes and devices and EMT. You will be required to wire a typical commercial installation including GFCI. Bends may include back-to-backs, offsets, and 3- an/or 4-point saddles. In addition to the criteria listed above, you will be graded on the accuracy of your conduit bends, plumb and level of runs, connections to boxes, and functional accuracy of the completed circuit. A copy of the tally sheet that judges will use to grade your project will be included so you can see how you will be judged.

<b>PART FIVE, RESUME</b>	<b>Part of Skills</b>	<b>N/A</b>
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You will be required to present a resume to the judges upon entering the contest area. A deduction to your total score will be applied if you do not have a resume.

**TIE BREAKERS:** In the event of a tie, the high score on the following will break the tie: (in order) performance test and written test.

**GENERAL INSTRUCTIONS**

1. You should read the instructions on the front of each section of the contest carefully. Wait until the judges tell you to begin. Further instructions are inside each test. Read these carefully, all the way through, before beginning.
2. Make sure you have completed all parts of each section before stopping. It never hurts to read the instructions again after you have finished to see if you remember doing everything.
3. Since mistakes in industry cost money, you will always be encouraged to check your work before applying power or sending it on as finished. High quality takes a little longer, but pays off in the long run. SkillsUSA-VICA stresses high quality. For these reasons, if you accidentally burn out a device during construction or testing of your project, you will not be allowed to replace it.
4. **Judges devote their time and, in many cases, money to see that the contest is successful.** While every effort is made before the contest to see that all contingencies are covered, some still may occur. That is why **the judges' decisions, in all cases, are final.**
5. Please follow all rules of the contest. You are all here in a spirit of **honest** competition. If you observe a contestant breaking a rule, please bring the infraction to the attention of a judge immediately. They cannot be everywhere at once. You may file a grievance after the contest if you feel something is out of order, but in most cases, to be effective, the infraction must have been brought to the attention of the judges during the contest. They will usually take action immediately to correct the situation.
6. **We all want to have a good time, play fair, and go home happy.**
7. **If you compete fairly, honestly, and give it your best shot, you are a winner.**