



Electronics Technology Scope
SkillsUSA 2011-12 District 10 Competition
Warren County Career Center
January 26, 2012



Electronics Technology

Evaluation of student preparedness for employment and recognizing outstanding student excellence in the Electronics field.

Clothing / Safety Requirements

Professional Competition attire is recommended. Safety Glasses or Goggles must be worn in the Laboratory during the performance exam.

Eligibility

Registered SkillsUSA members enrolled in the Electronics Technology program.

Tools / Materials and Equipment

1. *Supplied by the hosting school:*
 - a. *All materials, supplies and information needed to construct and test the designed circuit.*
 - b. *Oscilloscopes are available but it is recommended that the contestant utilize one he/she is familiar with.*
2. *Supplied by the Contestant:*
 - a. *Small Hand Tools*
 - b. *25 watt soldering pencil and associated tools*
 - c. *Multi-meter*
 - d. *20Mhz or greater Oscilloscope*
 - e. *Non-Programmable Calculator*
 - f. *Digital Logic Probe*

Scope of the Contest

1. *The contest will cover the theoretical and practical application of the electronics industry standards.*
2. *Contestants will demonstrate their ability to perform jobs or skills from the following list of competencies as determined by the SkillsUSA Championships technical committee.*
 - a. *Technical Recording and Reporting*
 - b. *DC Circuits*
 - c. *AC Circuits*
 - d. *Solid State Devices*
 - e. *Analog Circuits*
 - f. *Digital Devices*
 - g. *Micro-processing*
 - h. *Communication Electronics*
 - i. *Lab Practices*

There will be a written timed and supervised test on the above and a timed and supervised practical test on some or all of the following skills;

- a. *Soldering*
- b. *Series parallel circuit board construction*
- c. *Power supply*
- d. *Solid State Devices*
- d. *Amplifiers*
- e. *Digital*
- f. *Communications*

Contact information:

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