Telecommunications Cabling

Purpose

To evaluate each contestants preparation for employment and recognize outstanding students for excellence and professionalism in the field of telecommunications cabling.

Clothing Requirement

For men – White polo shirt with black dress slacks, black socks and black leather work shoes. Polo can be plain white without identifying logo for STATE competition only.

For women – White polo shirt with black dress slacks or skirt, black socks or black or skin-tone seamless hose and black leather work shoes. Plain white polo for STATE competition only.

All – Safety glasses with side shields of goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.

Eligibility

Open to active SkillsUSA students enrolled in a career and technical education program with telecommunications cabling (systems connectivity) as an occupational objective.

Equipment and Materials

Supplied by the technical committee:

- Mock wall, cable ladder, equipment racks, cable, patch panels, telecommunications outlets, termination blocks and modular plugs
- Connectors

Supplied by contestant:

- Personal eye protection
- Cable terminating tools (tools necessary to properly terminate eight position UTP modular plugs
- Cable tester
- In addition, tools such as electrician scissors, cable stripping tools, and other wire preparation and installation tools may be needed to install a communications outlet into an existing wall (drywall saw and fish tape)
- All competitors must create a one-page resume using a word processor and must hand in the resume to Contest Chair at start of competition.

Scope of the Contest

Knowledge Performance – The contest includes a written knowledge exam to assess knowledge of structural cabling. Questions from the written evaluation will be taken from the following general topic areas and are verbalized in the these competencies: cable pulling, copper media (UTP cabling), fiber optic media, horizontal cabling, installation of support structures, plans (blueprint and drawing), safety practices, standards and codes, telecommunications cabling systems, testing UTP cabling, transmission

ieory and troubleshooting.

Skill Performance - The purpose of the hands-on component of the contest will be to evaluate the ability to install, terminate and manage telecommunications cabling.

Contest Guidelines

1. An installation will be tested to industry standard requirements.
2. The cabling project must be completed with the given time and certified for use.
3. Equipment and tools needed to install the appropriate connectivity for the project will be provided.
4. Skills that are to be evaluated are outlined in the competencies provided by the contest technical committee. Standards are congruent with those established by the ETA Competency Requirements for Certified Data Cabling Installers.
5. Written test assessing the knowledge Customer Service and Data Cabling knowledge. This test will be administered prior to the hands-on portion of the Contest.
6. Blue Print reading and cabling estimation test. To be administered prior to the hands-on portion of the contest.

Standards and Competencies

Follow the National Technical Standards