Telecommunications Cabling Contest Information

Tentative-Information is subject to change, check back often.

NO SUBSTITUTIONS WILL BE ALLOWED AFTER FRIDAY, March 28th, 2025. THERE WILL BE NO SUBSTITUTIONS ALLOWED ON-SITE AT THE CONFERENCE*

TIME/DATE/LOCATIONS
State SkillsUSA Telecommunications Cabling Contests will be held Monday, April 28th, at Tulsa Technology Center Riverside Campus. Contest starts at 8am in Hanger B

CONTESTANT MEETING
There WILL be a contestant meeting at **3 p.m.** the evening before the event at Tulsa Technology Center – Riverside Campus, to get your contestants oriented to the Telecommunications Cabling contest layout and equipment, go over the format of the contest, and to hand out documentation they will need to study to be prepared to begin promptly in the morning. This meeting will be held in the Telecommunications Cabling contest area and should only take approximately an hour. Question and answer time will be allowed.

MOVE OUT
After the contest, all workstations must be disassembled and prepared for shipping. Please have your contestants stack the panels neatly for transport on pallets or 4x4's to allow the forklift to get under them without re-stacking. The contest area must be cleaned, swept, tables stacked, and all tape removed from the floor. This is the responsibility of instructors and contestants.

CONTEST TESTING
Contestants will be judged on their SkillsUSA knowledge through the Professional Development test and a knowledge test based on their contest area. Testing will be completed online and proctored through their technology centers.

Online testing opens March 14, 2025, and closes Apil 4, 2025.

RESUME- Change to submission type please for 2025 please read
All contestants will submit a digital resume prior to contest day. Contestants will receive an email to the address used to register the contestant for contest with instructions and link to access the SkillsUSA Competitor Portal page. The email will contain contestant's username and contestant

number, which are required to login to the Competitor Portal.

Deadline to submit resume is April 22, 2025

LUNCH
Lunch will be provided, and cost was added as part of registration fees.

CELLPHONES AND OTHER SMART DEVICES
Cellphones, electronic watches and/or other electronic devices not approved by a competition's technical committee are NOT allowed in the competition area. Please follow the guidelines in each technical standard for approved exceptions. Technical committee members may also approve exceptions onsite during the SkillsUSA Championships if deemed appropriate.

AWARDS CEREMONY
Winners will be recognized at the General Session on Tuesday morning, April 29th at 9am.
All competitors must wear official SkillsUSA dress to the Awards Session, where winners are announced. Competitors who are not dressed appropriately or lack official attire will be denied access to the awards stage. Students must be present when their contest is announced. If a student is improperly dressed, absent, or misses their contest being called, the production will not be paused for any reason, and they will forfeit their opportunity to go on stage to receive the award. No exceptions will be made. No hats or sunglasses will are allowed to be worn on stage.

- Official dress for men: Official blazer, jacket or sweater; black dress slacks; white dress shirt; plain black tie with no pattern or SkillsUSA black tie; black socks and black shoes.

- Official dress for women: Official blazer, jacket or sweater; black dress slacks or knee-length skirt with business like white, collarless blouse or white blouse with small, plain collar that may not extend onto the lapels of the blazer, and black dress shoes.

INDUSTRY AWARDS
As agreed at August Conference each instructor is requested to secure a minimum of
$50 in prizes for each student that you bring to the State SkillsUSA Championships. Please contact Bryan Hallmark bhallmark@ktc.edu for details and to let him know of industry awards you have secured. These awards should be labeled with the name, address, and contact person for the donating industry so that the contestant they are awarded to can send an appropriate expression of his or her appreciation.

Prizes are the responsibility of the individual contests. Prizes are not guaranteed and are not supplied at the SkillsUSA Oklahoma state level.   Please bring prizes to the industry awards area at the Arvest Convention Center Conference Hall, Sunday, April 27th between 12-4pm or Monday, April 28th between 8am-4pm.

TOOLS and SUPPLIES

Supplied by the technical committee:

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

- Tools, equipment, and consumables to terminate and splice fiber optic cable

Supplied by the participants:

Each competitor is required to bring the following tools/equipment to the Telecommunications Cabling competition. (with some major tools, contestants may share if school does not have sufficient to equip all contestants, but may delay some operations to share)

- Cable terminating tools (cutters, strippers, crimpers, punch-down, spudger) necessary to properly terminate the following:
- Cat 6
- Cat 5 or 5e
- 66 blocks
- RG6
- Cable: Supplies MUST be limited to these listed. No additional cable may be brought. Each contestant should have their own pre-cut, measured lengths (no working from shared spools). The intent is to reward efficiency of materials, not allow unlimited do-overs. Contestants MUST be able to complete the projects with the materials listed below.
- 50 feet – Cat 6 Cable
- 4 – 3' lengths of Cat 5 or 5e Cable
- 1 – 3' length of RG6 Cable
- Connectors
- 4 – 8P8C connectors
- 2 – RG6 compression-type connectors
- DMM
- Tester to check continuity
- Electrician's Scissors
- Cable Stripping Tools
- Cable Pulling Tools
- Fish Tape
- Pull String

- Electrical Tape
- Safety Glasses
- Hard Hat
- Snacks
- Bottled Water

CONTEST DESCRIPTION AND SCORING

The contest will consist of an online SkillsUSA (PDP) knowledge test, online written test covering knowledge of telecommunications concepts and practices, and practical hands- on activities that will measure the contestants' skill in common telecommunications tasks. The written test will contribute 10 percent to the total score and 87.5 percent will be divided among the various practical tasks as assigned by the technical committee and the telephone technical support station. The SkillsUSA PDP test accounts for 2.5 percent, which is consistent with National SkillsUSA competition.

WRITTEN EVALUATION

The purpose of the written portion of the contest is to test a student's complete knowledge of structured cabling. Questions from the written evaluation will be taken from the following general telecommunications cabling topic area:

- Pulling

- Copper Media (UTP cabling)

- Fiber Optic Media

- Firestopping
- Grounding and Bonding

- Horizontal Cabling

- Installation of Support Structures

- Plan (blueprints and drawings)

- Safety Practices

- Splicing

- Standard and Codes

- Telecommunications Cabling Systems
- Testing UTP Cabling

- Transmission Theory

- Troubleshooting

PROJECT EVALUATION

The purpose of the project component of the contest will be to test a student's ability to install, terminate and manage telecommunications cabling. Given a plan for a telecommunications cabling project, the contestant will install and test their
system. The students must, in a finite amount of time, complete the cabling project and certify it for use. This would be similar to doing installations in a telecommunications room. The client would request an upgrade to voice, data and cable television
services. The contestants, given equipment and tool, would install the appropriate connectivity for the upgrade. Skills that are to be evaluated are listed below.

- Knowledge of the color code for 4-Pair and 25-Pair UTP Cabling
- Conduit cable pulling techniques
- Cable Ladder cable pulling techniques
- Installation of a ground conductor
- Installation of a bonding backbone
- Installation of a firestopping system for conduit
- UTP patch panel installation
- UTP wall outlet installation
- Terminate a 66 style connecting block
- Install UTP style, 8-conductor modular outlets
- Install coaxial "F" style connectors
- Test UTP and coaxial cabling continuity
- Install fiber optic terminations and splice

ADDITIONAL INFORMATION If you have any questions about the contest, please contact Contest Chair or Program Specialist Ben Morgan.

National Technical Standards can be found on Absorb, which you can access with your professional SkillsUSA membership. Technical are updated periodically, please check regularly.