



# Telecommunications Cabling

## Career Competition

**Career Cluster:** Information Technology, Business Management and Administration, and Finance

**State Qualifying Exam:** Yes

**National Contest:** Yes

**Participation:** Individual

### Competition Description

This competition tests to worldwide industry standards for data and voice connections, physical and logical networks and signal transmission. Competitors demonstrate skills in: reading network design documentation; parts list setup; purchase, pulling and mounting cable; choosing wiring closets; patch panel installation and termination; installing jacks; and cable testing. The competition stresses safety and working effectively in group environments as well as customer service skills.

### Tasks To Be Evaluated

Install a 25 pair cable on cable blocks, install a Cat. 6 data jack, make a patch cord, install coaxial connector on a cable test and certify connections. Prepping and terminating data, phone, and coaxial cables

### Clothing Requirement

#### National Requirement:

##### Class E: Competition Specific — Business Casual

- Official SkillsUSA white polo shirt
- Black dress slacks or black dress shirt (knee-length minimum)
- Black closed-toes dress shoes

#### State Requirement:

##### Class E: Competition Specific — Business Casual OR

- White polo shirt or button-down dress shirt (other colored polo/dress shirt will be subject to deductions)
- Black dress slacks or black dress skirt (knee-length minimum)
- Black, closed-toe dress shoes.
- Any embroidered names or school patches must be covered, if applicable.

### Additional Information

Proper cable prep and termination of Cat.6 cable, a 25 pair cable, and a coaxial cable.

### Provided by Competitor

- Eye protection
- Hard hat
- IDC and compression tool necessary to terminate 8-pin modular plugs
- Compression tool for use with coaxial F-style snap and seal connectors
- Cable preparation tools such as electrician’s scissors, stripping tools, etc.
- Fish tape
- Electrical tape
- Mechanical probe-pic
- Cable labeling device
- Volt ohmmeter or DMM
- Cable wire mapping tester
- Fiber-optic continuity tester

### Provided by Technical Committee

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