

SkillsUSA Maryland

2018 Telecommunications Cabling Contest Update

(1) Termination of Cat6 Jacks

- Each student will receive (2) unpacked cat6 jacks
- Each student will receive a 5' section of cat 6 cable
- Each student will need to terminate each side of this cable
 - One side of the cable will need to be terminated 568A and the other 568B
 - Correct Color Code
 - Insulation tight from top to bottom of jack
 - Proper pair lay in
 - Fully seated cable; No open pair or hump back
 - Compression cap installed
- Ask any questions before the task starts
 - **Uncompleted task will result in a 0**

(2) Cable installation (2 contestants at a time)

- Each student will label the cable from the box (2d/2v outlet)
 - Make Pulling head
 - Labels are below pulling head
 - Properly taped
 - Staggered/Tapered head
 - Pull cable from outside of room through supports to WAO location
 - Cable run hits all supports
 - No slack in pull
 - Miss support or go in between supports is points deducted
 - Drop cable down conduit to WAO
 - Top of conduit service loop 3'
 - Neatly bundled and looped
 - Pay off into end of pipe looks clean
 - Points deducted if it isn't 3' loop
 - Termination of Cat 6 Jacks
 - Jacks needed
 - Relabel cable
 - Labels are to be labeled in the manner they were before
 - Install faceplate
 - Faceplate is level
 - Accessories are installed
 - Jacks are installed in proper ports
 - Need plate and outlet drawing
 - Sharpie Labels into windows

(3) Unicam connector

Each student will receive (2) connectors (1) LC Single-mode and (1) SC Multi-mode

- Each student will receive 5' of fiber both MM and SM

- Station will be presented with a Unicam kit. Students will be sharing a kit and will need to be explained that one connector per kid per time, so each student has the same amount time per connector.
 - Boots installed properly
 - Properly Stripped
 - Properly Cleaved
 - Dust Cap is put back on
 - Secured Connector
- Wearing eye protection
 - Deduction of points if eye protection isn't worn or if the contestant has to be told to put them on
- Ask any questions before the task starts
 - **Uncompleted task will result in a 0**

(4) RG6 Coax Connect

- Each student will receive (1) 5' section of RG6 coax cable
- Each student will receive (1) Rg6 connector
 - F Connector is firmly compressed
 - Dielectric is inserted completely
 - Stinger flush is cut to the top of the F Connector
- Ask any questions before the task starts
 - **Uncompleted task will result in a 0**

(5) Takeoff

- Each student will receive a set of drawings
- Explain to them all work needs to be shown
- Explain that a price needs to be given for the work
- Ask any questions before the task starts
 - **Uncompleted task will result in a 0**

(6) Oral (Professionalism)

- Each student will be asked a list of questions after cable rough in is complete and will be scored on the following:
 - Posture
 - Standing up straight
 - Hands out of pockets
 - Eye contact
 - Direct
 - Positive interaction
 - No swearing
 - Constructive Responses
 - Knowledge
 - Basic understand of what they are doing
 - Image
 - Professionally Dressed
- Questions:

- What cable was used in the install?
 - Brand
 - Color
 - Category
- Were supports used?
 - Yes or no
- Was service loop left?
 - Yes or no?
 - If yes, how much?
- Were the cables labeled?
 - Yes or no?
 - How did you know what to label them?
- Can you please walk with me and show me the install?
 - Show their install

(7) Testing and troubleshooting

- Each student will be handed a 5' section of cable with an RJ45 (Jack) terminated on the ends
 - The students will need to do the following:
 - Set up tester (DSX 8000)
 - Cable type
 - 568 A or B
 - Test the cable
 - Trouble shoot issue
 - Fix issue
 - Re-test
 - Save

(8) Termination of a 25 pair

- Each student will be given a 10' of cat 3 25 pair
- Student will need to terminate 25 pair onto a 110 block
 - Proper Preparation
 - Correct Color Code
 - Completed on time

(9) Proper Equipment

- Eye Protection
- Pen or Pencil

(10) Written Test

- 100 questions