

# **Voice Script**

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## **Welcome to the intern orientation module:**

### **How to Make Network Cables**

- In this lesson you will:
  - Determine what length cable is needed
  - Assemble the necessary tools and supplies
  - Make the network cable
  - Test the network cable

You can click on the NEXT and BACK buttons to navigate this orientation module.

At any time you can press the ESC key to exit this intern orientation module.

### **Determine Cable Length**

- Contact the user making the request
- Measure the distance between the wall or floor network port and the user's computer
- Make note of this length in the HelpDesk log

### **Tools and Supplies**

- You will need:
  - network cable (cat5)
  - crimping tool kit
  - RJ45 clips
- If any of these supplies are not in stock, notify the IT Director to place an order
- Then notify the user of expected time of completion

### **Making the Network Cable**

- Measure the length of cable needed
- Use the stripping tool to strip a small amount of casing away from the wires
- Please note that only the green pair needs to be separated; it is not necessary for the other colors to be separated
- Assemble the colored wires in the following pattern:
  - White orange, orange, white green, blue, white blue, green, white brown, brown
- Note that pins 4,5,7, and 8 and the blue and brown pairs are not used in this standard
  - These pins and wires are not used or required to implement 100BASE duplexing
- Once you have assembled the wires in that order, gently slide them into the RJ45 clip
- Note that the wires must be fully inserted into the RJ45 clip so that you can actually see the copper from the front of the clip
  - This means that the copper of the wires is connecting with the pins of the RJ45 clip successfully

- Insert the completed RJ45 clip into the crimping tool and fully clamp down to crimp the RJ45 clip to the wire

### **Testing the Network Cable**

- Repeat the previous process for both ends of the cable
- Once you have fashioned a RJ45 clip to each end you can test the cable
  - Insert the cable into a properly working computer and port or network hub, or
  - Test using the network cable tester in the tool kit

### **Summary of Lesson**

- You should now be able to:
  - Determine what length cable is needed
  - Assemble the necessary tools and supplies
  - Make the network cable
  - Test the network cable

You may now complete the quiz to determine what you have learned by clicking on the quiz button on the left hand menu.

There are additional lessons available to you by clicking on the lessons button on the left hand menu. Please complete these as often as necessary.

There are also helpful links included in this lesson by clicking on the left hand menu.

### **Evaluation of Lesson**

Please complete the following quiz by clicking on the “What Have I Learned?” button.

### **Additional Lessons**

You can click on anyone of these additional lessons to continue with your intern orientation.

### **Useful Links**

These are links that you will find useful during your internship with IT Services.

Thank you for completing this intern orientation module. Press the ESC key to exit this intern orientation module.