

Hands-On

CAT 5/6 & Installation & Troubleshooting

includes Fiber Optics and COAX/CATV Overview



BICSI CECs

This course has been approved for CEC credits by BICSI. Please read below for a breakdown of the credits that we offer for this course. For more information regarding BICSI please visit our website.

RCDD: 14	NTS: 14	Inst: 14	Tech: 14	Cert. Trainer: 14
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Course Description

This Hands-On course will train students how to properly Build, install, terminate, and test Category 5/6 cables. This course covers the latest standards, tools, and techniques used today's cable installations.

This course is full of hands-on lab exercises. Each student will build, terminate and test Category 5/6. Neat, quality, workmanship is enforced throughout this course. Those who complete this course will be productive and knowledgeable in both Fiber Optic, CATV and Category 5/6 cabling and more.

Our SMEs have the field experience to find the answers to real live scenarios, providing students with a Real-World Experience

Students Will Learn

- Project Planning
- Network Architectures
- Network Components
- Connector Types
- Termination Tools
- Cable Performance Specifications
- Firestopping
- Testers
- Termination Hardware
- and More

Target Audience

Installation technicians and supervisors of data networks, Test engineers who will be required to perform characterisation or acceptance testing of structured cabling networks, Maintenance staff who will be required to perform routine maintenance or emergency fault finding and repair and anyone working with CAT 5/6 cabling.

Prerequisites

A basic understanding of Telecommunications, which can be obtained in our course(s) -Hands-on Basic Telephony & TeleCom Electronics

Course Outline

Module I. Project Planning

- a. Network Overview
- b. Building Structures

- c. Tools
- d. Cable
- e. Termination Hardware
- f. Test Equipment
- g. Liability
- h. Safety

Module II. Cable Installation

- a. Codes and Standards
- b. Pulling Cables
- c. Supporting Cables
- d. Cable Obstacles
- e. Firestopping
- f. Cable Documentation
- g. Pathways
- h. Special Tools

Module III. Cable Terminating

- a. Pair Twist Limits
- b. Bend Radius
- c. Connector Types
- d. Cable Management
- e. Quality Workmanship
- f. Termination Lab

Module IV. Testing

- a. Testing Specifications
- b. Test Types
- c. Testing Lab

Module V. Fiber Optics Overview

Module V. COAX/CATV Overview

Delivery Method

Instructor-led with Hands-On labs and exercises throughout the course.

Equipment Requirements

(This apply's to our hands-on courses only)

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

Course Length

2 Days