Hands-On

Building/Campus Premise DCR (Design-Cabling-Repair)

(Installation and Repair of CAT 5-6, Fiber Optics, Coax, Audio Visual Systems)

Course Description

This Hands-On course offers the Hotel, Resort, Campus, Hospital and Building Industry the ability to become fully versed in all data cabling and audio visual design and installation including CAT 5e, CAT6, coax cabling & fiber optics installations and repair for a wide range of audio visual systems for hospitality-hotel-casino-hospital-campus network applications.

Electronic and Audio Visual Systems are also becoming more and more sophisticated in today's age of smart homes and wireless networking systems. Electronic and Audio Visual Technicians design, coordinate and implement complex systems to allow users to get the most out of their systems and other modern electronic equipment.

We train your technicians to understand and support your data and telecommunication networks including fiber, Cat 5-6, and Coax and the basic to complex design and wiring of today's complex audio visual systems. Our Subject Matter Experts have the real-World experience and the training experience that will give your staff the practical Hands-On techniques and practical applications needed to support your communications network by teaching the latest data cabling, fiber optic, coax, and audio visual system technologies.

This course will cover design, installation, troubleshooting, repair and certify your technicians on data cabling, coax, fiber optic cabling, audio visual systems in campuses, casinos, resorts, convention centers, hotels & motels, hospitals and all premise facilities.

Students Will Learn

- **Structured Cabling Standards and Practices**
- **Key Definitions**
- **Create designs, concepts, and sample layouts based on knowledge of layout principles and aesthetic design concepts.**
- **Read blue prints and create new floor plans.**
- **Confer with clients to discuss and determine layout design.**
- **Research products recommended in the proposal for compatibility.**
- **Review final layouts and suggest improvements as needed.**
- **Provide and verify product dimensions to ensure proper fit and finish.**
- **Program Remote Control Systems based on the project schematics.**
- **Prepare wiring schematics, floor plans, and product specific proposals for technicians to complete project installation in the field.**
- **Create systems for the end-user that are robust and easy to use.**

- **Install systems to meet and exceed all of the expectations set in the client meetings.**
- **Fiber Optics, Copper, Coax & Wireless for Voice, Data & Video**
- **UTP Install Dos and Donts**
- **CAT 5/6 Installation, Troubleshooting and Repair**
- **Coax Installation, Troubleshooting and Repair**
- **Fiber Optics Installation, Troubleshooting and Repair**
- **Audio Components and Cabling, Installation and Troubleshooting**
- **Visual Components, Cabling, Installation and Troubleshooting**
- **FAQs Frequently Asked Questions**
- **And more...**

Target Audience

Persons who will be Designing, building, installing, troubleshooting and repairing Category 5-6, Fiber Optics, Coax Cabling and Audio Visual Systems.

Prerequisites

Basic electrical/telecommunications concepts and be able to pass a color-blindness test.

Course Outline

Module I: Structured Cabling Standards and Practices

Module II: Key Definitions

Module III: Fiber Optics, Copper, Coax & Wireless for Voice, Data & Video

Module IV: UTP Install Dos and Donts

Module V: CAT 5/6 Installation, Troubleshooting and Repair

Module VI: Coax Installation, Troubleshooting and Repair

Module VII: Fiber Optics Installation, Troubleshooting and Repair

Module VIII: Audio Components, Installation, Troubleshooting and Repair

Module IX: Video Components, Optics Installation, Troubleshooting and Repair

Module X: FAQs Frequently Asked Questions

Delivery Method

Instructor-Led with numerous Hands-On labs and exercises.

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

4 Days