



# Cabling Training Program

The following curriculum outline contains 5 **Modules**.

These modules are designed to stand on their own academic merit.

## **Module I – Introduction to Structured Cabling Systems – 36 contact hours**

<u>Lesson</u>	<u>Contact hours</u>
Structured Cabling Systems	4
Installing Copper Horizontal Cabling	4
Standards and Codes	4
Advanced Standards and Codes and Methods for Structured Cabling Systems, Media and Connectors	4
Media Cable Characteristics, Signal Transmission and Applications	4
Connectors, Connecting Hardware, Copper Cable Pre-Termination and Termination on IDC Blocks	4
Terminating Coaxial Cable and Twisted Pair Cable And Cable Management	4
Splicing Copper and Final Review	4
Test	4



## **Module II – Intermediate Structured Cabling Systems – 36 contact hours**

<u>Lesson</u>	<u>Contact hours</u>
Cable Supporting Structures, Backbone and Horizontal Supporting Structure	4
Cable Testing Devices and Introduction to Copper Cable Testing and Troubleshooting	4
Installation, Labeling, Administration and Standards, Instruments and Tests for Performance Certifications	4
Performance Testing and Troubleshooting of Copper Cable Vendor Certification in Cable Performance Testing and Troubleshooting	4
Designing Telecommunication Rooms	4
Building Telecommunication Rooms	4
Telecommunications Equipment Rooms	4
Outside Plant Entrance Facilities and Final Review	4
Test	4



### **Module III – Introduction to Optical Fiber – 24 contact hours**

<u>Lesson</u>	<u>Contact hours</u>
Basics and Installation of Optical Fiber Cable	4
Optical Fiber Link Loss, Termination Types and Tools Matching Optical Fiber Media, Connectors, Termination Types	4
Attaching and Polishing Optical Fiber Connectors and Splicing Optical Fibers	4
Optical Fiber Testing and Troubleshooting	4
Inspecting Optical Fiber Connections and Final Review	4
Test	4



**Module IV – Introduction to Grounding, Firestopping and Blueprint Reading –  
32 contact hours**

<u>Lesson</u>	<u>Contact hours</u>
Introduction to Grounding and Grounding Electrode Systems and Conductors	4
Circuit / System Grounding, the Grounded Connector, Main Bonding Jumper and Equipment and Enclosure Grounding and Bonding	4
Firestopping and Vendor Certification	4
Fundamentals of Blueprint Reading / Site, Architectural and Structured Drawings	4
Mechanical and Electrical Drawings / Project Planning	4
Planning Retrofit Projects and Implementing Retrofit Plans Through System Cutover	4
Material List Development and Manufacturer's Certification and Final Review	4
Test	4



**Module V – Introduction to Networking and Telephone Systems – 16 contact hours**

<u>Lesson</u>	<u>Contact hours</u>
Introduction to Computers, the Internet and Data Networking	4
Switches, Hubs and Routers	4
Telephone Systems and Voice Signal Transmission And Final Review	4
Test	4