DCT ADVANCE FIBER OPTICS CABLING

WITH FUKE CERTIFICATION

Duration: 5 Days

Course Code: DCT -INFR - AFO

About this course:

The DCT Advance Fiber optics cabling is a 5 days comprehensive practical certification program that covers Fiber optics standards, Installation, splicing, testing and trouble shooting.
The training leads to multiple Certifications from the following internationally recognized bodies.
DCT Structured cabling Fiber Optic cabling is a unique multi-vendor course that introduces Structured Cabling standards for Fiber installations. The class-based training offers advanced hands-on experience labs to prepare students for any deployment scenarios for Fiber optic structured cabling. (5 Days)

Target Audience

Technicians, installers, splicers, contractors, telecom managers, electricians, and anyone involved in repairing, installing, maintaining, designing, evaluating, or provisioning fiber optic systems and local area networks.

Objectives:

- Delegates are equipped with the knowledge, skills, and expertise to competently undertake the installation of the Structured Cabling Solutions Course

Labs

- Terminations, splicing of fiber, Troubleshooting, and testing on: Fiber cabling with VFL, OTDR and Fluke performance tester.

Pre-requisite

- Those attending this course require basic understanding of network topology.

Certificates

- DCT Certified Fiber Installer
- GIGANET Certified Fiber Installer
- ETA Fiber Certified Installer
- Fluke CCT Fiber Certification

Students Will Learn

- Fiber Manufacturing Methods.
- Fiber Optic Theory and Waveguide Functions.
- Singlemode (OSP) And Multimode (ISP) Fiber Types.
- The Causes of Attenuation,
- Optical Reflection and Refraction.
- Optical Dispersion Characteristics and Pulse Spreading Issues.
- Loose Tube Style Trunk Cables Distribution and Feeder Cables.
- Fusion Splicer Applications and Fiber Alignment Systems.
- Mechanical Splicing Uses and Applications
- Optical Connector Styles and Applications
- Back Reflection Issues and Angled Physical Contact Connectors.
- Patch Panels and Functions for Distribution and Transmission.
- ISP/OSP Style Splice Closure Styles and Function
- Cable Entry Methods and Splitter Configurations
- Drop Cable Connectivity and Security
- Cable Installation Methods as Direct Bury, Aerial and Ducted
- Emergency Restoration Issues, Future Planning, Restoration Kits
- Safety Practices
- Topologies for Urban and Rural Communities
- Splitters, ONTs/OLTs/ODNs
- Intro to Optical Testing and Troubleshooting.
- Visible Light Sources, OTDRs And Power Meters
- Testing Methods For ISP/OSP Systems And More

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Course Outline

- History of fiber optics and broadband access
- Principles of fiber optic transmission
- Basic principles of light
- Optical fiber construction and theory
- Optical fiber characteristics
- Fiber optic safety
- Fiber optic cables
- Splicing
- Connectors
- Fiber optic light sources
- Fiber optic detectors and receivers
- Cable installation and hardware
- Fiber optic system advantages
- Test equipment and link/cable testing

Fluke CCTT (Fibre) Certification

- Tier 1 fibre certification (CertiFibre® Pro)
- Tier 2 fibre certification (OptiFibre® Pro)
- Encircled Flux (EF)
- End face inspection
- Set a reference
- OTDR event types
- OptiFibre® Pro link testing