



Consulting and Training | Reach New Heights

Course Name

Professional Fiber Optic Technician Course

Sector Name

Instrumentation & Controls

Document Type

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Professional Fiber Optic Technician Course

Course Introduction

The Hispanic course has a broad knowledge of fiber optics, including the types of fiber optic, fiber optic cables, accessory varieties, fiber optic installation techniques, fusion splicing, and testing.

This advanced course uses the actual field procedure and standards to survey, install, test, and troubleshoot the fiber optic networks in a very professional way for both ISP (inside plant) & OSP (outside plant) projects.

This course explains the different fiber optic installation techniques in different environments using the latest technologies with a high level of hands-on training and field simulation.

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Target Audience

- ✓ Telecom
- ✓ Network
- ✓ Instrumentation engineers
- ✓ Field stuff
- ✓ IT
- ✓ Designer
- ✓ Supervisors
- ✓ Technicians

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Learning Objectives

- ✓ Knowledge of the fiber optic basics
- ✓ Recognize the types of fiber optic & Standards
- ✓ Understanding the fiber optic cables and their applications
- ✓ Knowledge of fiber optic accessories
- ✓ Preparing and installing the fiber optic cables
- ✓ Understanding the latest techniques for installing fiber optic cables
- ✓ Installing low-loss fusion splicing
- ✓ Terminate the fiber optic cable at the patch panel
- ✓ Splice two fiber optic cables inside the underground closure
- ✓ Test, maintain, and troubleshoot the fiber optic networks

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Course Outline

✓ **01 Day One**

1- Fiber Optic Fundamentals

- ✓ Overview
- ✓ Advantages of Fiber Optics
- ✓ Fiber Optic vs. Copper
- ✓ Fiber Optic Manufacturing
- ✓ How Fiber Optics Work?
- ✓ Fiber Optic Transmission Basics

2-Fiber Optic Types & Standards

- ✓ Single Mode (G652.A,B,D – G657A,B,C – G655)
- ✓ Multi-Mode (OM1, OM2, OM3, OM4)
- ✓ TIA & ISO
- ✓ Plastic Fiber Optic

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Course Outline

✓ 02 Day Two

3 - Fiber Optic Losses and Transmission Effects

- ✓ Insertion and Reflection Loss
- ✓ Splice Loss and Termination Loss
- ✓ dB & dBm
- ✓ Bending, Temperature, Humidity, and Pressure

4-Fiber Optic Cables (Actual Samples)

- ✓ Fiber Optic Cables Applications
- ✓ Indoor Fiber Optic Cables
- ✓ Outdoor Fiber Optic Cables
- ✓ Aerial Fiber Optic Cables Submarine Fiber Optic Cables

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✓ **03 Day Three**

5- Fiber Optic Accessories (Actual Samples)

- ✓ Racks & Cabinets
- ✓ Patch Panels & ODFs
- ✓ Patch Cords & Pigtails
- ✓ Connectors & Adapters
- ✓ Fiber Optic Closures
- ✓ Fiber Optic Outdoor Cabinets

6- Fiber Optic Cable Installation Techniques and Procedures (Field Simulation & Demo. Videos)

- ✓ Cable Pulling In Conduits
- ✓ Direct Buried
- ✓ Aerial Cabling
- ✓ Sun-Marine Cabling

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Course Outline

✓ **04 Day Four**

7- Fiber Optic Safety

- ✓ Human Safety
- ✓ Equipment Safely
- ✓ Site Safety
- ✓ Materials Safety
- ✓ Bonding and Grounding

8 - Fiber Optic Installation (Hands-On Training)

- ✓ Fiber Optic Cable End Preparation
- ✓ Fiber Optic Fusion Splicing By Splice Machine for SM & MM Fibers
- ✓ Fiber Optic Termination at Patch Panel
- ✓ Fiber Optic Termination at Termination Box
- ✓ Fiber Optic Cables Splicing Inside an Underground Closure

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Course Outline

✓ **05 Day Five**

9- Fiber Optic Testing (Hands-On Training)

- ✓ Visual Fault Locator (VFL)
- ✓ Fiber Optic Loss Test (OLTS)
- ✓ OTDR Theory Testing
- ✓ OTDR Trace Analysis
- ✓ OTDR Events Table
- ✓ OTDR Reports
- ✓ Fiber Optic Fault Detection and Troubleshooting

10- Review and Quiz

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 23, 2027	May 27, 2027	5 days	4250.00 \$	KSA , Riyadh
Nov. 9, 2026	Nov. 13, 2026	5 days	4950.00 \$	USA , Los Angeles
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 21, 2026	Sept. 25, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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