



Consulting and Training | Reach New Heights

Course Name

Advanced OSP Fiber Optic Installation

Sector Name

Instrumentation & Controls

Document Type

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Advanced OSP Fiber Optic Installation

Course Introduction

Professional Fiber Optic Installation is an advanced course that uses the actual field procedure and standards to install the fiber optic networks in a very professional way for both ISP (indoor) and OSP (outside plant) cabling systems.

The course covers site survey, installation, testing, maintenance, and troubleshooting of fiber optic networks such as ISP and OPS networks. This course explains the different fiber optic installation techniques in different environments using the latest technology. The course has more hands-on training.

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Advanced OSP Fiber Optic Installation

Target Audience

- ✓ Telecom
- ✓ Network engineer
- ✓ Field staff
- ✓ IT
- ✓ Designer
- ✓ Premises and OSP technician
- ✓ Supervisor
- ✓ Contractor
- ✓ Consultant

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Learning Objectives

- ✓ Knowledge of OSP fiber standards
- ✓ Knowledge of outdoor fiber optic cable types for different environments
- ✓ Knowledge of OSP network hardware
- ✓ Knowledge of the latest cable installation technologies
- ✓ Using many technologies to terminate the fiber optic
- ✓ Installing low-loss fusion splices
- ✓ Termination of fiber optic in the patch panel
- ✓ Splicing fiber optic inside the joint closure
- ✓ Deep knowledge of Fiber Optic testing
- ✓ Learning Step by Step the Fiber Optic Networks Troubleshooting

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Course Outline

✓ **01 Day One**

Permits and OSP Fiber Optic

- ✓ Premises and OSP overview
- ✓ Premises VS. OSP
- ✓ Professional installer in indoor and outdoor environments

Fiber Optic Cables and Applications (Actual Field Samples)

- ✓ Riser and Plenum
- ✓ LSZH and Fire Retardant
- ✓ All dielectric Cables
- ✓ Underground Cables
- ✓ Direct Buried Cables
- ✓ Ariel Cables, ADSS and Figure Eight
- ✓ OPGW
- ✓ Sub-Marine Cables

Outside Cabling and Hardware

- ✓ Ingress Protection
- ✓ In-line and Dome Fiber Optic Closure
- ✓ Outdoor Termination Box
- ✓ Outdoor Cabinet

✓ Splitter Hub

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Course Outline

✓ **02 Day Two**

Conduit System

- ✓ Conduit Types
- ✓ Trench Specifications
- ✓ Manhole and Hand Hole
- ✓ Tools
- ✓ Conduit, Manhole, and Hand Hole
- ✓ Cable Pulling Procedures
- ✓ IEC standards

Direct Burial

- ✓ Open Trench Specifications
- ✓ Cable Laying Procedures
- ✓ Tools
- ✓ Warning Tape

OSP Advanced Installation Techniques

- ✓ Blowing Technology / Cable Jetting
- ✓ Micro Trench
- ✓ HDD

✓ Mid Span Technology

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Course Outline

✓ **03 Day Three**

Micro-Duct & Micro Cabling

- ✓ Micro-ducts (1 way to 24 ways)
- ✓ Micro-ducts closures
- ✓ Micro-Cables
- ✓ Micro-Ducts Accessories
- ✓ Micro Cable blowing

Sub-Marine Installation

- ✓ Shallow and Deep water
- ✓ On-Shore & Off-Shore Installation
- ✓ Procedures
- ✓ Attached Cable

Site Survey

- ✓ Survey Equipment
- ✓ Choose the Route and Alternative Routes
- ✓ Soil Types

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Course Outline

✓ **04 Day Four**

Fiber Optic Termination (Hands-on training)

- ✓ Outdoor Fiber Optic Termination at Wall box
- ✓ Fiber Termination at a Patch Panel with Pigtails
- ✓ Fiber Termination at DIN rail box

OSP Fiber Optic Splicing (Hands-on training)

- ✓ Weather Protection Equipment
- ✓ Hand Tools
- ✓ Closure Assembly
- ✓ Fiber Fusion Splicing inside the underground closure

OSP Fiber Optic Testing (Hands-on training)

- ✓ VFL and fault locating for fiber breaks
- ✓ Variable Attenuator
- ✓ OLTS
- ✓ Bi-directional OLTS
- ✓ Professional OTDR testing
- ✓ Intelligent Mapping
- ✓ Remote Testing Intelligent and real-time patching system

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✓ 05 Day Five

OSP Troubleshooting (Hands-on training)

- ✓ Fault Allocation
- ✓ Fault Definition
- ✓ Fault Repairing Steps

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
Sept. 21, 2026	Sept. 25, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Nov. 9, 2026	Nov. 13, 2026	5 days	5950.00 \$	USA , Los Angeles
Jan. 11, 2027	Jan. 15, 2027	5 days	4250.00 \$	UAE , Dubai

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info@boostuae.com info@boostorg.com

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