



# FIBER OPTIC SPLICING & PREPARATION

## HANDS-ON TRAINING

### Course Description

This comprehensive training program is designed to provide participants with the knowledge and skills necessary for successful fiber optic splicing and preparation. Participants will learn about fiber optic fundamentals, industry standards, advantages of fiber optics over copper, types of fiber cables, connectors, splicing techniques, installation methods, safety precautions, system design, network topologies, emergency restoration, and testing equipment. Through a combination of theoretical instruction, demonstrations, and hands-on practical exercises, participants will gain proficiency in fiber optic splicing, preparation, and testing procedures.

A Comprehensive two (2) day hands-on training for Fiber Optic Contractors & Installers!

Conducted by a FOA certified installer!

Full packed with essential topics in fiber optic technology, including best practices, standards, and proper splicing!

Get after training professional support!

### ITLLECTUAL MANILA

Suite 210 FMSG Bldg.  
1823 E. Rodriguez Sr. Ave.  
Brgy. Immaculate Conception  
Cubao, Quezon City  
Philippines 1111

[www.itelleqq.com](http://www.itelleqq.com)

0915-4885708 | 0919-5618888



## Course Objectives:

Upon completion of this training, participants will be able to:

- ✓ Understand the principles and components of fiber optic communication systems.
- ✓ Familiarize with industry standards and terminology related to fiber optics.
- ✓ Compare the advantages of fiber optics over copper-based communication systems.
- ✓ Differentiate between single-mode and multi-mode fiber cables and their respective applications.
- ✓ Identify various types of indoor/outdoor fiber cables, including ribbon fibers and new generation fibers.
- ✓ Describe the construction and classification of optical fibers.
- ✓ Recognize different types of fiber optic connectors and their applications.
- ✓ Explain the theory and application of mechanical splicing and fusion splicing techniques.
- ✓ Install fiber optic cables and hardware for different environments such as outside plant, premises/LAN, indoor/outdoor, underground/aerial.
- ✓ Follow safety precautions when working with fiber optic cables and equipment.
- ✓ Perform stripping, scoring, cleaving, and splicing of fiber optic cables accurately.
- ✓ Plan and design fiber optic networks, considering various topologies and deployment scenarios.
- ✓ Execute emergency restoration procedures for fiber optic networks.
- ✓ Understand the theory, operation, and application of test equipment, including Optical Time Domain Reflectometer (OTDR) and Light Source & Power Meter.
- ✓ Perform fiber optic link and power budget calculations.
- ✓ Conduct hands-on fusion splicing using fusion splicing equipment.

## Course Outline:

- ✓ Components of fiber optic communication systems.
- ✓ Industry standards and terminology related to fiber optics.
- ✓ Advantages of fiber optics over copper-based communication systems.
- ✓ Single-mode and multi-mode fiber cables.
- ✓ Indoor/outdoor fiber cables, including ribbon fibers and new generation fibers.
- ✓ Construction and classification of optical fibers.
- ✓ Fiber optic connectors and their applications.
- ✓ Fiber optic preparation and proper handling.
- ✓ Mechanical splicing and fusion splicing techniques.
- ✓ Hardware for different environments such as outside plant, premises/LAN, indoor/outdoor, underground/aerial.
- ✓ Safety precautions when working with fiber optic cables and equipment.
- ✓ Stripping, scoring, cleaving, and splicing of fiber optic cables accurately.
- ✓ Plan and design fiber optic networks, considering various topologies and deployment scenarios.
- ✓ Emergency restoration procedures for fiber optic networks.
- ✓ Theory, operation, and application of test equipment, including Optical Time Domain Reflectometer (OTDR) and Light Source & Power Meter.
- ✓ Fiber optic link and power budget calculations.
- ✓ Hands-on fusion splicing using fusion splicing equipment.

## Target Audience:

This training is suitable for telecommunications engineers, network technicians, fiber optic installers, IT professionals, and anyone involved in the planning, installation, and maintenance of fiber optic communication systems.

## Prerequisites:

Basic understanding of telecommunications and networking concepts  
**is recommended but not required.**

## Duration:

2-Days | 14-hours (Customizable based on specific training needs)

## Delivery Method:

Instructor-led training with a combination of lectures, case studies, group discussions, actual demonstration, and hands-on exercises.

## Certification:

Upon successful completion of the training program and assessment, participants will receive a Certificate of Completion in Fiber Optic Splicing and Preparation Training.

## Training Investment:

Per head Investment – Php11,200.00 (VAT-Inc)

Exclusive/Group Training – Php 112,000.00 (VAT-Inc), maximum of 10 participants

Outside Manila or Provincial Training – Subject to verification and customized costing.

## Securing the training slot:

Upon settling the training investment, send the proof of payment, full name, mobile number, and email address to [itllectualmanila@gmail.com](mailto:itllectualmanila@gmail.com).

## Where to pay:

Bank Name: LANDBANK OF THE PHILIPPINES

Account Name: ITELLEQQ TRAINING AND CONSULTANCY

Account Number: 5462-0024-42

-----

Bank Name: BANCO DE ORO

Account Name: VANESA CEZAR

Account Number: 001100-205134

-----

GCASH

Account Name: VANESA CEZAR

Gcash Number: 09154655700

## Other concerns? Contact our Hotline:

0915-4885708 | 0919-5168888 | [itllectualmanila@gmail.com](mailto:itllectualmanila@gmail.com)

*"Anyone who stops learning is old, whether 20 or 80, anyone who keeps learning stays young.  
The greatest thing in life is to keep your mind young."*

– Henry Ford

---