

# Fiber Optics 1-2-3 Re-engineered for 2022

This instructor-led course provides a fundamental understanding of fiber optics, coupled with the practical hands-on skills training required to install and maintain fiber optic networks. Perfect for those new to fiber or those looking to enhance their current skill set. Two days of classroom time are dedicated to the understanding of fiber technology and network components, followed by two days of hands-on skills training to develop cable preparation, termination, splicing, and testing skills.

**Audience:** Field technicians, installers, IT support staff, engineers, field supervisors, OSP staff, maintenance techs, or technical sales staff

**Prerequisite:** Fiber Foundations recommended, but not required

## Classroom Topics (2 Days)

- Fiber Basics
- Fiber Optic Transmission Theory
- Multimode and Single-mode Fibers
- Fiber Optic Cables
- Connectors and Connector Endfaces
- Splicing
- Fiber and Cable Management
- Installation
- Test Equipment
- Testing Best Practices
- Restoration
- Active and Passive Devices
- Loss Budgets
- Safety

## Hands-on Skills Labs (2 Days)

### Connectors

- Prepare Fibers for Termination
- Hand-polished Anaerobic Connectors
- Cleaning and Inspection
- Mechanical Splice-on Connectors
- Identify Nearby Bends and Breaks
- Assemble an ETA-compliant Patchcord

### Cable Preparation for Termination

- Prepare Stranded Cable for Panel Installation
- Prepare Buffer Tube for a Splice Tray
- Prepare a Fanout Kit

### Splicing and OTDRs

- Modify Typical OTDR Settings
- Recognize and Interpret Events
- Use a Launch Box
- Modify Typical Splicer Settings
- Perform Arc Calibration
- Fusion and Mechanical Splicing

### Optical Loss Testing

- Wet and Dry Cleaning Methods
- One-, Two- and Three-cord Reference Testing
- Create a Sample Loss Budget
- Detect Active Fibers

## Certification



### ETA® International Fiber Optics Installer (FOI)

Valid for four years. Available to four-day attendees only.



### Light Brigade Digital Badge

Complete this course and receive a Credly digital badge.



### Sumitomo Fusion Splicing Fundamentals Digital Badge\*

Available to four-day attendees only.



30 BICSI CECS (four-day)  
15 BICSI CECS (two-day)

## Early Bird Pricing\*



Four-day course & e-manual ..... \$1945

Two-day classroom only ..... \$950

Optional ETA FOI exam ..... \$155

**Recorded training sessions available.**

Printed manual available for purchase.

\*See page 17 for more information.

## Upcoming Dates and Locations

