



Fiber Optics for Enterprise Networks

This course provides the practical knowledge and hands-on skills required to properly design, install, and maintain fiber optic premises and data center networks. Students will use the latest fiber optic technology and equipment to splice, connectorize, test, and troubleshoot multimode and single-mode fiber networks in order to increase efficiency, reliability, and on-the-job safety as well as reduce cost and downtime.

Course Format: Three days; 12 hours of lecture and 12 hours of hands-on exercises

Audience: Installation contractors and end users involved in building and maintaining private or premises networks and data centers

Course Outline

Classroom (12 Hours)

- Introduction
- Applications
- Standards and Codes
- Fiber Optic Transmission Theory
- Multimode Optical Fibers
- Single-mode Optical Fibers
- Optical Cables
- Fiber Management Products
- Connectors
- Fiber Splicing
- Installation
- Test Equipment
- Testing
- System Design
- Safety

Hands-On (12 Hours)

Station #1 – Cable Preparation

- Tight Buffered Cable Preparation
- Loose Tube Cable Preparation
- Fanout Kit Installation
- Wire Mesh Pulling Grips
- Pre-terminated Cable Protection

Station #2 – Fusion Splicing

- Cleaning and Fiber Cleaving Processes
- Attenuation Measurement

Station #3 – Connectorization

- Field-installable Connectors
- Splice-on Field-installable Connectors
- 900-micron Multimode Jumpers
- Attenuation Measurement

Station #4 – Testing

- Single-mode Insertion Loss Testing
- Multimode Insertion Loss Testing
- Single and Multifiber Connector Testing
- Connector Inspection
- OTDR Testing
- Measure Optical Return Loss
- Compute a Link Loss Budget

Certification

Light Brigade
Certificate of
Completion



Complete this course and receive a Light Brigade Certificate of Completion.

BICSI: 20 ITS CECs

Course Fees*

Three-day course **\$1500**

Discounts

- 10% Multiple attendees
- 10% USTelecom members
- 15% IMSA, UTC, and FBA members
- 25% Light Brigade alumni

* Prices valid for registrations received at least 21 days prior to class.

Upcoming Dates and Locations

Tampa, FL	April 10-12, 2018
Seattle, WA	September 11-13, 2018
Las Vegas, NV	November 27-29, 2018