The Leader in Fiber Optic Training

We provide critical training for your personnel — improving efficiency, reducing costly errors, and lowering operating costs. Since 1987, Light Brigade has trained 60,000 technicians, installers, engineers, designers, and other support staff from a wide variety of industries.

Instructors

Our professional instructors work directly for us. They come from diverse backgrounds and have expertise in many aspects of fiber optics. With practical real-world experience in applications ranging from network design and installation to sensing and fiber characterization, our instructors provide valuable insights for our students.

Hands-on Training

Extensive hands-on training sessions help our attendees to learn skills and best practices by doing the work. Attendees spend class time working with cables, connectors, closures, splicers, and test equipment — whatever is appropriate for their specific course. Our 7:1 ratio of students to instructor ensures the direct personal attention needed for each student during their lab work.

Technology-based

Because we focus on the technology first, students can choose to develop their skills using our equipment, tools, and accessories, or bring their own to class and learn to use them more effectively.

Relevant

Our course materials are regularly updated to stay current with products, best practices, and emerging technologies, and reference the latest applicable standards and codes.

Ongoing Benefits for Our Alumni

Light Brigade alumni receive several valuable benefits, like free phone support. If you have a technical question or need some guidance, our support staff is just a phone call away.

Graduates of our three and four-day courses also qualify for generous discounts on subsequent courses for up to four years after taking class and are eligible for special discount offers on some fiber optic equipment and cleaning supplies.
# Table of Contents

## Custom & Remote Training

2019 Training Courses ...................................................................................................................... 6-17
- Fiber Optics 1-2-3 .................................................................................................................. 6-7
- Fiber Optics for Enterprise Networks .................................................................................. 8
- Advanced OSP Technician ................................................................................................. 9
- Emergency Restoration ...................................................................................................... 10
- OTDR & Testing Deep Dive Workshop ........................................................................... 11
- FTTx for Installers & Technicians ............................................................................... 12
- Certified Fiber to the Home Professional ................................................................ 12
- FTTx OSP Design ........................................................................................................ 13
- OTT Certified Optical Network Associate ................................................................. 13
- Fiber Characterization Fundamentals .......................................................................... 14
- OTT Certified Fiber Characterization Engineer ........................................................ 14
- Fiber Optics for Utilities ............................................................................................. 15
- Fiber to the Antenna ...................................................................................................... 16
- Fiber Optics for Industrial & Harsh Environments .................................................... 17

## Online Training ................................................................. 18-19
- Fiber Foundations .......................................................................................................... 18
- Single-mode Technology: Theory and Fibers .......................................................... 18
- CFHP Online Training Program .............................................................................. 19
- Staff Development Videos .......................................................................................... 19

## Certifications & Discounts .......................................................... 20

## Fiber Optic Products .................................................................................. 21
Recommended Learning Paths

FF ................... Fiber Foundations
FO123 .......... Fiber Optics 1-2-3
FTTx ............. FTTx for Installers & Technicians
UTIL L1 ....... Utilities Level 1
UTIL L2 ....... Utilities Level 2
UTIL L3 ....... Utilities Level 3
ER ............... Emergency Restoration
ADV ............ Advanced OSP Technician
OTDR .......... OTDR Deep Dive
FC ............... Fiber Characterization

For training, tools, or equipment:
206.575.0404 • 800.451.7128
www.lightbrigade.com
Need a road map? Check out a few of the many possibilities.
On-site & Customized Training

Benefits of On-site Training

- **Convenience**
  Schedule training exactly where and when you need it.

- **Cost Savings**
  Save travel time and expenses by bringing training to your facility.

- **Expertise**
  Learn on your own equipment or have us bring our extensive inventory of equipment and supplies. You decide!

- **Flexibility**
  Courses can be scheduled throughout the year and delivered at different company locations.

Customized Training

Don’t see exactly what you’re looking for?

Need training on something more unique or specific to your business?

Our subject matter experts can work with you to develop a course that meets your precise needs and then deliver it at your location. Whether you require small or large changes, we have the experts who can give your team the knowledge and skills needed to get the job done right.
The two-day classroom portion of our Fiber Optics 1-2-3 course has been wildly popular for those who want to learn about fiber optic technology but don’t require the hands-on skills training. Light Brigade now offers a virtual classroom option that brings these two days of classroom learning directly to you. Connect remotely to a LIVE class where you will be part of the action — able to ask questions and hear comments from other attendees in real-time — all without the added travel time and expense.

Benefits of Remote Classes
• Learn in the comfort of your own home or office.
• Attend classes that may not be available in your immediate area.
• More opportunities to attend. Never be turned away from a full class.
• Less time away from work.
• Save on travel expenses.

Look for the 🎧 to see which classes offer remote training or call us for more details.
Fiber Optics 1-2-3

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

**Course Outline**

**Classroom (2 Days)**
- Introduction to Fiber Optics
- Fiber Theory
- Multimode and Single-mode fibers
- Fiber Optic Cables
- Fiber Optic Connectors
- Splicing
- Fiber and Cable Management
- Installation
- Test Equipment
- Testing Best Practices
- Restoration
- Safety
- Communication System Basics
- Loss Budgets

**Hands-on (2 Days)**

**Station #1 – Splicing**
- Fusion / Mechanical / Pigtail
- Fiber Handling and Cleaving

**Station #2 – Connectorization**
- Multiple Bonding Methods
- Visual Inspection / Cleaning
- Cable Assembly Testing

**Station #3 – Cable Preparation**
- Loose Tube Cable Preparation
- Breakout and Distribution Cable Preparation
- Patch Panel and Splice Closure Preparation
- Mid-entry Practices

**Station #4 – OTDR Operation**
- Acceptance Testing
- Reflection Testing
- Span Testing and Splice Loss
- Emergency Restoration
- Troubleshooting

**Station #5 – Optical Loss Testing**
- Link Loss Measurement
- Transmit and Receive Power

**Certification**

**ETA International Fiber Optic Installer**
This certification is designed for those working with both multimode and single-mode fibers. ETA FOI certification is valid for four years. Certification testing is available to four-day class attendees only.

BICSI: 30 ITS CECs (four-day)
BICSI: 15 ITS CECs (two-day)

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Specifications and class dates are subject to change without notice
Fiber Optics for Enterprise Networks

This three-day, instructor-led course provides the practical knowledge and hands-on skills training required to properly design, install, and maintain fiber optic premises and data center networks. Attendees 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 and reliability, as well as reduce costs and downtime.

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

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

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**Course Outline**

**Classroom (1.5 Days)**
- 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 (1.5 Days)**

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

**Station #3 – Fusion Splicing**
- Cleaning and Fiber Cleaving Processes
- 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

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**Certification**

**ETA Fiber Optic Technician — Inside Plant**

This certification is designed for those working with multimode and single-mode fiber in enterprise and data center applications. ETA certification is valid for four years.

BICSI: 20 ITS CECs
Advanced OSP Technician

This three-day instructor-led course features one day of classroom theory that delivers a quick refresher on fiber terminology and technology before diving into FTTx, emergency restoration, fiber characterization, and how the latest industry trends may impact field practices. This is followed by three days of hands-on skills training, where attendees build and troubleshoot a passive optical network from patch panel to patch panel through various splice closures with multiple drops.

**Audience:** Fiber optic technicians, team leaders, installers, outside plant maintenance staff, or staff engineers

**Prerequisite:** Any Light Brigade introductory courses like Fiber Optics 1-2-3 or equivalent field experience

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**Course Outline**

**Classroom (1 Day)**
- Safety
- Terminology and Concept Review
- Trends in Fiber Optics
- FTTx Fundamentals
- Emergency Restoration
- Introduction to Fiber Characterization

**Hands-on (3 Days)**

**Station #1 – Cable Preparation**
- OSP Cable and Closure Preparation
- Mid-entry Practices on OSP Loose Tube Cables

**Station #2 – Splicing**
- Fusion, Mechanical, and Ribbon Splicing
- Splice-on Terminations
- Connector Testing and Inspection

**Station #3 – Loss Testing**
- Building LAN Panels
- Total Span Testing
- Reflection and Optical Return Loss Testing

**Station #4 – OTDRs**
- Interpreting OTDR Results
- Span Troubleshooting and Restoration

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**Certification**

**ETA Fiber Optic Technician — Outside Plant**

This certification is for those installing outside plant single-mode fiber optic networks. ETA FOT-OSP certification is valid for four years.

BICSI: 31 ITS CECs
Emergency Restoration

This two-day instructor-led course focuses on fault location, troubleshooting, and test equipment with a heavy emphasis on hands-on skills training that simulates actual field restorations for both retrievable and non-retrievable slack scenarios. Attendees will gain the knowledge and skills necessary to help their organizations to better deal with outages.

**Audience:** Fiber optic technicians, engineers, or managers who work in the OSP environment

**Prerequisite:** Any Light Brigade introductory courses like Fiber Optics 1-2-3, Utilities Level 1 Technician, or equivalent field experience

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**Course Outline**

**Classroom (0.5 Day)**

- Fiber and Fiber Theory
- Optical Cable
- Connectors
- Fiber and Cable Management
- Splicing
- Test Equipment
- Optical Testing
- Documentation
- Restoration Planning
- Retrievable and Nonretrievable Slack
- The Restoration
- Safety

**Hands-on (1.5 Days)**

**Safety Meeting**

**Restoration Simulation**

- Build an Emergency Restoration Kit
- Build a Simulated Fiber Optic System
- Test the Span with an OTDR
- Perform a Loss Budget

**Perform Optical Loss Testing**

**Define the Simulated Outage**

**Accurately Measure Distance**

**Measure Optical Distance**

**Field Repair Simulation**

**Retest and Document the System**

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**Certificate**

**Light Brigade Certificate of Completion**

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

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For training, tools, or equipment:
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Specifications and class dates are subject to change without notice.
OTDR & Testing Deep Dive Workshop

This two-day instructor-led course focuses on field testing and troubleshooting fiber optic spans/links and explains the various types of equipment and tools needed for acceptance testing, documenting performance, and finding problems in a fiber physical plant. The emphasis is on understanding proper OTDR settings, overall testing, and evaluating results.

**Audience:** Installers, OSP technicians, maintenance techs, field supervisors, or senior technicians

**Prerequisite:** Fiber Optics 1-2-3 or field experience with fiber optic testing. Fiber Foundations recommended, but not required

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Course Outline

**Classroom (1 Day)**

- **Introduction**
  - Optical Loss Test Sets
  - Proper Cleaning and Inspection Tools
  - Visual Fault Finders
  - Optical Fiber Identifiers
  - OTDR Theory and Operation

- **Testing Demonstrations**

**Hands-on (1 Day)**

**Station #1**

- Reading OTDR Signatures
- Selecting the Correct Pulsewidth
- Using Launch and Receive Cables or Terminators
- Determining Helix Factor
- Testing Close-in Events
- Bidirectional Testing
- Locating Breaks
- Advanced Trace Analysis
- Acceptance Testing

**Station #2**

- Connector Cleaning and Inspection
- Connector Endface Evaluation
- Testing Transmit and Receive Power
- Calculating Dynamic Range
- Setting Up Tier 1 Testing
- Dual Wavelength Bidirectional Optical Loss Testing
- Creating Multimode Launch Conditions
- Identifying Live Fibers and Tone Identification
- Creating a System Loss Budget

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**Certificate**

**Light Brigade Certificate of Completion**

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

BICSI: 12 ITS CECs

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Specifications and class dates are subject to change without notice
FTTx Training Courses

FTTx for Installers and Technicians
This four-day instructor-led course is designed to provide useful technical knowledge of fiber optics relating to FTTx applications, as well as the skills needed to install and test the physical layer for active Ethernet and passive optical networks (PON).

**Audience:** Beginner and experienced technicians, or supervisors

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

**Classroom (2 Days)**
- FTTx Methodology
- Optical Fiber and Cable
- Termination Options
- Splitters
- OLTs and ONTs
- Panels, Closures, and Cabinets
- Installation, Maintenance, and Restoration

**Hands-on (2 Days)**
- Cable, Closure, and Panel Preparation
- Mid-entry Practices
- Inline and Pigtail Splicing
- OTDR Testing and Signature Interpretation
- Testing Splitters
- Testing OLT and ONT Power Levels
- Troubleshooting

Certified Fiber to the Home Professional (CFHP)
This two-day instructor-led course focuses on the fundamentals of FTTH architecture, network design, deployment technology, and operational skills. It covers everything from FTTx components to FTTx systems, including discussion around the business issues involved with planning FTTx deployments.

**Audience:** Those involved in the planning and deployment of FTTx networks

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

**Classroom (2 Days)**
- Applications
- Bandwidth Issues
- Economics
- Theory and Fibers
- FTTH Standards
- Network Topologies
- Network Components
- Cable Management
- Cable and Fiber Termination
- Splitter Placement
- Network Design
- Fiber to the Building
- Loss Budgets
- Test Disciplines

Certification
- **ETA Fiber Optic Technician — Outside Plant**
  Valid for four years.
  BICSI: 30 ITS CECs

For training, tools, or equipment:
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Specifications and class dates are subject to change without notice
**Certification**

**FBA FTTx OSP Design**
Valid for three years.

**OTT Certified Optical Network Associate (CONA)**
This five-day instructor-led course examines how to design, plan, and implement cost-effective, high-speed networks from single channel systems to multiple channel options using CWDM and DWDM. Attendees will work together on interactive design projects to establish requirements for proper system performance and determine how the network can be affected by the properties of the physical infrastructure.

**Audience:** Outside plant and network engineers

**Prerequisite:** Knowledge of fiber theory and basic network engineering concepts

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**FTTx OSP Design**
This three-day instructor-led course begins with fundamental fiber and network component information relating to FTTx network design considerations. The course then covers best practices for product selection and ideal placement for point-to-point, distributed and centralized split network options.

**Audience:** Outside plant and network engineers

**Prerequisite:** Knowledge of fiber theory and basic network engineering concepts

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**Classroom and Design Exercises (3 Days)**

<table>
<thead>
<tr>
<th>FTTH Fiber Planning</th>
<th>Campus Style Apartments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Futureproofing</td>
<td>High Rise Buildings</td>
</tr>
<tr>
<td>PON Design Options</td>
<td>Subdivisions</td>
</tr>
<tr>
<td>Take Rate / Splitter Location</td>
<td>Rural Areas</td>
</tr>
<tr>
<td>Fundamental Design Steps</td>
<td>WDM-PON Considerations</td>
</tr>
<tr>
<td>General Design Steps</td>
<td>Home Run Strategies</td>
</tr>
<tr>
<td></td>
<td>Splitter Cabinets</td>
</tr>
<tr>
<td></td>
<td>Distributed Split Design</td>
</tr>
<tr>
<td></td>
<td>Design Exercises</td>
</tr>
</tbody>
</table>

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**Network & Design**

Specifications and class dates are subject to change without notice.
Fiber Characterization Fundamentals

This two-day instructor-led course focuses on the principles behind building and maintaining high-speed optical networks where key parameters such as polarization mode dispersion and chromatic dispersion must be calculated to evaluate system capabilities and potential upgrades to higher bit rates.

Audience: Those involved with equipment or systems where fiber characterization is needed to ensure proper operation of 10 Gb/s or higher data rates

Prerequisite: Previous experience with fiber optics and some knowledge of OTDR testing

Classroom (1 Day)
- Optical Fiber and Connectors
- Components Overview
- Regeneration
- Optical Multiplexing
- Dispersion and Polarization
- Test Equipment
- The Future

Hands-on (1 Day)
- Build Spans and Test for PMD and CD
- Reflection Testing
- PMD and CD Documentation

OTT Certified Fiber Characterization Engineer (CFCE)

This five-day instructor-led course focuses on mastering the tests required to verify that an infrastructure can support high data rate (10+ Gb/s) applications, Raman amplification, and extended wavelength ranges for CWDM and DWDM systems, as well as those typically required to prove that the fiber will operate properly when dark fiber contracts are signed.

Audience: OSP and network engineers, senior technicians, or designers

Prerequisite: Previous experience with fiber optics and some knowledge of OTDR testing

Classroom and Hands-on Exercises (5 Days)

Classroom
- Bidirectional Loss Testing
- OTDR Testing
- Documentation and Reporting

Hands-on
- ORL Testing
- CD, PMD and Spectral Attenuation Testing

Certificate

Light Brigade
Certificate of Completion

Certification

OTT Certified Fiber Characterization Engineer
Certification

UTC Fiber Optic Professional
This certification is valid for three years.

Level 1 Technician
This three-day instructor-led course teaches basic fiber optic theory and the products used in fiber networks, focusing on the proper installation and maintenance of aerial and underground utility fiber optic systems. Hands-on skills training includes splicing, termination, testing, and troubleshooting to increase efficiency, reliability, and deployment speed in the field.

Audience: Installers and technicians in the utilities telecom industry
Prerequisite: Fiber Foundations recommended, but not required

Level 2 Designer
This one-day course examines fiber optic design parameters, cable management alternatives, route planning, optical testing requirements, test results interpretation, and cable system design.

Audience: Those involved in the design, administration, operation, and supervision of utility-based fiber optic networks
Prerequisite: Any Light Brigade introductory courses like Fiber Optics 1-2-3, online training, or equivalent field experience

Level 3 Advanced Designer
This one-day course focuses on DWDM systems and transmission impairments such as PMD and CD that limit the bandwidth and operating rates of fiber optic transmission systems. It covers xWDM theory and applications with a special emphasis on fiber dispersion limits and system design considerations.

Audience: Design engineers, or project managers
Prerequisite: Knowledge of fiber optic theory, plus field experience or formal training such as Fiber Optics for Utilities Level 2 Designer
This four-day instructor-led introductory course provides the fundamentals needed to understand fiber optic applications and challenges in the FTTA/cell site space. Fiber, cable, connectivity, field tools, and equipment are taught and applied to cell sites as well as macrocell, microcell, femtocell, picocell, and DAS applications. Attendees will gain experience using tools and equipment required for splicing, cable preparation, cleaning and inspection, OTDR, return loss, and optical loss testing.

**Audience:** Installers, design engineers, project managers, field engineers, or anyone who is managing or installing fiber for an antenna site

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

### Course Outline

**Classroom (2 Days)**
- Fiber Theory
- Fiber Types and Characteristics
- Cable Types and Characteristics
- Preterminated Cables
- Connectors
- Splicing
- Fiber and Cable Management
- Installation
- Standard Test Methods
- Restoration
- Safety
- System Design

**Hands-on (2 Days)**

**Station #1 – Cable Preparation**
- Loose Tube Cable Preparation
- Hybrid Cable Preparation
- Breakout and Distribution Cable Preparation
- Patch Panel and Splice Closure Preparation
- Mid-entry Practices

**Station #2 – Optical Loss Testing**
- Link Loss Measurement
- Transmit and Receive Power
- Visual Inspection / Cleaning
- Variable and Fixed Attenuators

**Station #3 – OTDR Operation**
- Acceptance Testing
- Reflection Testing
- Span Testing and Splice Loss
- Emergency Restoration
- Troubleshooting

**Station #4 – Splicing**
- Fusion / Mechanical / Pigtail
- Fiber Handling and Cleaving

**Certification**

**ETA Fiber to the Antenna**
Valid for four years.

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Specifications and class dates are subject to change without notice
Fiber Optics for Oil/Gas

This four-day instructor-led course teaches how to properly design, install, and maintain fiber optics systems in petrochemical environments. Attendees will use the latest fiber optic technology and equipment to splice, connectorize, test, and troubleshoot optical fiber networks in order to increase efficiency and reliability as well as reduce costs and downtime.

**Audience:** Those who design, install, test, or maintain fiber networks in petrochemical applications such as offshore drilling, pipelines, refineries, and processing plants

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

### Classroom (2 Days)
- Optical Fibers and Connectors
- Fiber Optic Splicing
- Polyimide Coating Strippers
- Fiber/Cable Management
- Optical Cable Installation
- Testing, Troubleshooting, and Restoration
- Temperature/Stress Monitoring
- Fiber Optic Sensing Applications

### Hands-on (2 Days)
- Station #1 – Fiber and Cable Preparation
- Station #2 – Fiber Optic Splicing
- Station #3 – Connectorization and Termination
- Station #4 – Optical Loss Testing
- Station #5 – OTDR Testing

Fiber Optics for Mining Applications

This three-day instructor-led course teaches how to properly design, install, and maintain fiber optics systems in harsh environment underground and surface mines. Attendees will use the latest fiber optic technology and equipment to splice, connectorize, test, and troubleshoot mining-based optical fiber networks in order to increase efficiency and reliability.

**Audience:** Anyone who designs, installs, tests, or maintains optical fiber networks in harsh or hazardous environments

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

Fiber Foundations

Perfect for those new to fiber, this interactive online course is the ideal first step into fiber optics for anyone new to the industry. The overview of basic theory, terminology, and key products is designed to provide a baseline on which to build more in-depth training. Whether a new employee at an organization that manufactures fiber related products, or a technician moving over from the copper world, this short e-course will introduce technical terminology with accurate, easy-to-understand language.

BICSI: 1 ITS CEC

Single-mode Technology: Theory and Fibers

This interactive online course covers topics that go beyond the fundamentals. Communications today depend on single-mode fiber, from backbone infrastructure of voice, data and video wireline networks to most wireless networks. This e-course offers a deeper understanding of optical theory as it applies to single-mode fibers and systems, making it critical to anyone working in the fiber optic industry.
Certification

Certified Fiber to the Home Professional (CFHP)

Valid for three years.

CFHP Online Training Program

This interactive online course was developed for network designers, network planners, supervisors, and project managers involved in deploying and maintaining FTTH and FTTB networks. This e-course features 16 modules that offer a broad base of knowledge around FTTH architecture, network design, deployment technology, and operational skills. Ideal for remote and international students looking for the comprehensive material found in our Certified Fiber to the Home Professional (CFHP) instructor-led course, without the added expense of travel. These topics include:

- Bandwidth and Economic Issues
- Evolution of Fiber-to-the-Home Networks
- Basic Fiber Optic Theory
- FTTH Architectures and Topologies
- Network Components
- Fiber and Cable Management
- Termination Options
- Network Design
- Loss Budgeting
- Test Equipment and Test Procedures

Staff Development Videos

These staff development training videos were designed for anyone looking for a flexible and convenient way to learn about fiber optic technology and various products. Each video covers a specific topic using an assortment of video clips, animations, and graphics to provide key technical concepts and hardware information. Order and watch online – or buy in DVD format to watch without the need for a high-speed Internet connection.

The videos may be purchased individually or as a set. Detailed descriptions and previews can be found at www.lightbrigade.com.
Certifications & Discounts

Light Brigade Certificate of Completion
This certificate of completion is awarded to anyone who completes a Light Brigade instructor-led training course. Signed by the course instructor, this certificate specifies the content and total number of instructional hours for both classroom and hands-on skills training and each is uniquely traceable to the class attended.

Independent Certifications
Many Light Brigade training courses are eligible for independent certification through third-party industry organizations and groups. These certifications show competency in hands-on skills and technical knowledge. See individual course pages for more information.

Third-party Credits
BICSI Continuing Education Credits (CECs), IMSA CECs, InfoComm RUs, and NCTI Master Technician credits are available for many Light Brigade training courses.
Top reasons to buy from Light Brigade

1. **Expertise**: We know fiber optics inside and out. It’s all we do!
2. **Tools & Accessories**: Comprehensive tool kits designed for field use.
3. **Partnerships**: We work with the leading suppliers in the industry.

Need Products? Call Us!