The Light Brigade
Your Fiber Optic Resource

The #1 Fiber Optic Training Provider

Instructors: Our instructors have a wide variety of practical experience from small telephone networks to sophisticated military facilities.

Hands-on: Learn by doing rather than watching. At least half of the time in our hands-on courses is spent building, testing, or troubleshooting.

Technology-based: Learn techniques applicable to any product or equipment. In our classes, you receive an objective viewpoint, not a sales pitch!

Relevant: Our course materials and techniques are taught based on the latest releases from the ITU, TIA/EIA, IEEE, Telcordia, and ANSI.

Continuing Support: We offer technical support after class is over. If you have a question or need help, our staff is there to help.

Knowledgeable: We helped to develop the Fiber Optic Installer and Fiber Optic Installer–Outside Plant certification programs for the Electronic Technicians' Association.

(800) 451-7128
Fax (206) 575-0405
www.lightbrigade.com

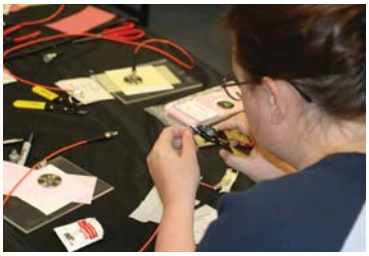
Bring The Light Brigade to you!

Custom Course Questionnaire

The Light Brigade offers course development services in which courses can be customized to a desired skill level, to focus on specific subject matter, or to take place at a special location. We have produced thousands of customized courses, DVDs, videos, and other training materials.

Simply complete the questionnaire on the back of this form and our staff will help you to build the best possible course for your needs.

Advantages of a Light Brigade Custom Course



- **Convenience:** The course can be taught at your site(s) and scheduled to meet your business needs.
- **Cost savings:** Eliminate travel expense.
- **Time savings:** Eliminate travel time to and from a public class. Also, your employee's time will only be spent on issues critical to your company's business.
- **Develop expertise:** Use your own equipment in our training. You are also welcome to have us bring our extensive inventory of supplies and equipment. You decide!
- **Critical emphasis:** You pick the points, products, and techniques of particular importance to your operations, and our skilled instructors and technicians will tailor a custom course to meet your requirements.
- **Scheduling flexibility:** A custom course can be any length: one day, one week, or longer. It can be scheduled during or after normal business hours. In addition, there can be sessions spread out throughout the year and delivered at different company locations. You choose what makes sense for your organization.

Trusted Throughout the World

The Light Brigade has been designing custom classes for a wide variety of industries for more than two decades. Here is just a small sampling of companies and organizations that have trusted us to meet their fiber-optic training needs:

- American Electric Power
- Bermuda Telephone
- Boeing
- City of Tallahassee, FL
- Communications Workers of America
- Dallas Area Rapid Transit
- Department of State
- Disneyland
- Google
- Hewlett-Packard
- Kauai Island Utility Co-Op
- Lawrence Livermore Labs
- Maryland Department of Transportation
- Matanuska Telephone
- Memphis Light, Gas & Water
- Microsoft
- NBC Broadcasting
- Panasonic
- Qwest
- Snohomish PUD
- Tennessee Valley Authority
- Tulalip Tribes
- United States Army
- United States Bureau of Reclamation
- United States Marine Corps
- Verizon
- Westinghouse Electric

Revised 11/17/2008

Questionnaire
For Custom Fiber Optic Training

Fax back to Pam Wooten at (206) 575-0405.

Contact Information

NAME	TITLE
COMPANY	
ADDRESS	
PHONE	FAX
EMAIL	

What is your company's primary business?

What is your time frame for hosting a course?

What will be the deciding factor in holding a course at your site?

The closest major airport is _____, which is ____ miles or ____ hour(s) from the class site.

What are your primary objectives for this course?

How many classes do you need? _____ They will be held: ☐ consecutive dates/weeks ☐ over time

How do you think the class time should be allocated? _____% Classroom time _____% Hands-on

How many days of training do you need? _____ How many people will be trained? _____

Attendees will have: ☐ No fiber experience ☐ Some fiber experience ☐ Combination of both

The job positions/titles or types of work that the students perform are:

Are you currently installing or have fiber installed at your site(s)? ☐ Yes ☐ No

Is certification important? ☐ Yes ☐ No If yes, which? ☐ ETA ☐ IMSA ☐ FOA ☐ Other_____

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Application: ☐ Voice ☐ Video ☐ Data ☐ Other _____

How do you use fiber in your work environment? _____

Fiber type: ☐ Standard SMF ☐ Ribbon ☐ Multimode (Size_____) ☐ Other _____

Fiber manufacturer: _____

Cable types used	Manufacturer	☐ OFNR ☐ OFNP ☐ LSZH
☐ Indoor cable		
☐ Distribution		
☐ Breakout		
☐ Outdoor cable		
☐ Armored		
☐ Non-armored		
☐ Mid-entry (breakout)		
☐ LSZH (Low smoke zero halogen)		
☐ ADSS (All-dielectric self-supporting)		
☐ OPGW (Optical power ground wire)		
☐ Other _____		

Closure types used	Manufacturer	Model #
☐ Splice closures		
☐ Patch/distribution panels		
☐ Emergency restoration		
☐ Storage cabinets		
☐ Pedestals		
☐ Other _____		

Connector types used:	Singlemode/polish*	Multimode	Bonding method*	Manufacturer
☐ ST	☐ /			
☐ SC	☐ /			
☐ LC	☐ /			
☐ FC	☐ /			
☐ Other_____	☐ /			

*Examples of polish types include PC, APC, flat, etc. Examples of bonding methods include thermal cure, anaerobic, hot melt, cleave & crimp, etc.

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Equipment That You Have or Use

Optical Loss Test Set / Light Source Manufacturer _____ Model # _____
Connector type: ☐ SC ☐ ST ☐ FC ☐ LC ☐ Other _____
Wavelengths: ☐ 850 nm ☐ 1300 nm ☐ 1310 nm ☐ 1550 nm ☐ Other _____

Optical Loss Test Set / Power Meter Manufacturer _____ Model # _____
Connector type: ☐ SC ☐ ST ☐ FC ☐ LC ☐ Other _____
Wavelengths: ☐ 850 nm ☐ 1300 nm ☐ 1310 nm ☐ 1550 nm ☐ Other _____

Troubleshooting tools:	Manufacturer	Model #
☐ Fiber identifier		
☐ Visual tracer		

OTDR (optical time domain reflectometer)	Manufacturer	Model #
☐ Singlemode		
☐ Multimode		

Connector type: ☐ SC ☐ ST ☐ FC ☐ LC ☐ Other _____

Fusion splicing	Manufacturer	Model #
☐ Profile alignment system (PAS)		
☐ Local injection & detection (LID)		
☐ Manual		
☐ Splice tray type		
☐ Splice protector type		

Mechanical splicing: ☐ 3M Fibrlok ☐ Norland UVC ☐ Rotary ☐ Camsplice ☐ Other _____

Splicing applications: ☐ Pigtail ☐ In-line ☐ Emergency restoration ☐ Acceptance testing

Additional areas of interest: ☐ Fiber characterization ☐ Advanced hands-on ☐ FTTx ☐ Traffic ☐ DVDs

Additional comments