

# 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

## Course Outline

### Classroom (0.5 Day)

#### Optical Network Failures

Potential points of failure

#### Planning

The network lifecycle  
Route management  
Route marking and documentation  
GIS data

#### Identifying and Locating

Fault location  
OTDR usage and event interpretation  
Helix factor  
Outage restoration

#### Post Restoration Tasks

### Hands-on (1.5 Days)

#### Build a Network

Build a fiber optic system consisting of two panels, one closure, and 200 feet of cable.

#### Build an Emergency Restoration Kit

Build an emergency restoration kit with a splice closure and 100 feet of cable

#### Test and Repair a Failed Network

Measure span loss with an optical loss test set  
Use a visual fault locator to find a stressed or broken fiber  
Identify and locate events with an OTDR  
Use ERK to locate and fix the simulated failure

### 2020 Class Locations

Denver, CO	January 21-22
Jackson, MS	February 25-26
Tulsa, OK	April 28-29
Seattle, WA	June 30-July 1
Spartanburg, SC	September 22-23
Dallas, TX	October 27-28

## Certificate



### Light Brigade Certificate of Completion

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

### Early Bird Pricing\*



Two-day course & e-manual..... \$1100

Printed manual available for purchase.

\* See page 17 for more information.



For training, tools, or equipment:  
206.575.0404 • 800.451.7128  
[www.lightbrigade.com](http://www.lightbrigade.com)



Specifications and class dates are subject to change without notice