



# Fiber Optics for ITS, Traffic, Fire Alarm, and Communication Systems

This instructor-led training program was developed in partnership with various individuals and organizations involved with intelligent traffic systems. It is for those who plan, design, install and/or maintain fiber optic networks in traffic or transportation environments. It consists of three courses given over a consecutive five-day period.

## Certification

### Fiber Optics for ITS, Traffic, Fire Alarm, and Communication Systems

This certification is valid for three years. Technician Level I certification is required to be eligible for Field Technician Level II or Design Technician Level II certification.

## Course Fees\*

Technician Level I . . . . .	<b>\$800</b>
Field Technician Level II . . . . .	<b>\$950</b>
Design Technician Level II . . . . .	<b>\$495</b>
Certification (per level) . . . . .	<b>\$175</b>

### Discounts

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

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

## Upcoming Dates and Locations

- Minneapolis, MN** Feb 26-Mar 2, 2018
- Houston, TX** April 2-6, 2018

## Technician Level I (Days 1 and 2)

Gain an understanding of the physical layer. Topics covered include fiber theory and optical fibers, fiber optic cables, splicing, panels, trays, closures, installation methods, testing, maintenance, restoration and safety.

**Course Format:** Two days of lecture

**Audience:** Field maintenance staff, design engineers and ITS managers

## Field Technician Level II (Days 3 and 4)

Build on the knowledge gained in the Technician Level I course. You'll complete hands-on exercises in cable preparation, splicing, OTDR operation, optical loss testing, restoration and maintenance. Anyone who installs or maintains fiber optic intelligent transportation systems (ITS) would benefit from this course.

**Course Format:** Two day of hands-on exercises

**Audience:** Field maintenance staff, design engineers and ITS managers

**Prerequisite:** Technician Level I course

## Design Technician Level II (Day 5)

Learn system design, loss budgets, optical multiplexing, bidirectional transmission, bandwidth considerations, and integration for voice, video and data systems, and analog-to-digital applications.

**Course Format:** One day of lecture

**Audience:** Maintenance and operations supervisors, design engineers and ITS managers

**Prerequisite:** Technician Level I course