



NEW Fiber to the Antenna

This course includes fiber optic fundamentals and focuses on the integration and installation of optical components in order to successfully establish connectivity in FTTA and cell tower networks. Fiber, cable, connectivity and field tools and equipment are taught and applied to cell sites as well as macrocell, microcell, femtocell, picocell, and DAS applications. Attendees will use the latest technology and equipment in hands-on skills exercises that give practical hands-on experience with splicing, cable preparation, cleaning and inspection, OTDR, return loss and optical loss testing.

Course Format: Four days; two days of lecture and two days of hands-on skills exercises

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

Course Outline

Classroom (16 Hours)

- 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 (16 Hours)

- Station #1 – Splicing**
 - Fusion / Mechanical / Pigtail
 - Fiber Handling and Cleaving
- Station #2 – Cable Preparation**
 - Loose Tube Cable Preparation
 - Hybrid Cable Preparation
 - Breakout and Distribution Cable Preparation
 - Patch Panel and Splice Closure Preparation
 - Mid-entry Practices
- Station #3 – OTDR Operation**
 - Acceptance Testing
 - Reflection Testing
 - Span Testing and Splice Loss
 - Emergency Restoration
 - Troubleshooting
- Station #4 – Optical Loss Testing**
 - Link Loss Measurement
 - Transmit and Receive Power
 - Visual Inspection / Cleaning
 - Variable and Fixed Attenuators

Certification

ETA Fiber to the Antenna
– Fiber Optic Technician
(FTTA-FOT)



Valid for four years.

Course Fees*

Four-day course **\$1700**
Optional ETA FTTA-FOT exam **\$150**

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

Seattle, WA	January 16-19, 2018
Orlando, FL	March 5-8, 2018
Las Vegas, NV	June 26-29, 2018
Dallas, TX	July 17-20, 2018
Washington, DC	Oct 30-Nov 2, 2018