



FTTA Certification

A globally accepted document by telecom companies



Fiber To The Antenna, Wireless, RRH-DAS

Installation, Testing & Maintenance

- ◆ Become certified as: **Certified Fiber Optic Specialist/Antenna (CFOS/A)**
[Fiber to the Cell Tower Antenna, Installation, Testing and Trouble Shooting]
- ◆ Learn the fundamentals of Fiber Optics and RF testing of Cell towers, Remote Radio Head (RRH) and Distributed Antenna Systems (DAS).
- ◆ Prepares students with hands on labs for testing and trouble shooting of RF cable and Fiber optics to the Cell Tower Antennas, RRH and DAS.
- ◆ Master the following **learning objectives**:

**ATT Horizons
APPROVED**

Installation & Maintenance:

Fiber to the Antenna In Cell Towers, Remote Radio Heads and Distributed Antenna Systems.

- Why and how Fiber is replacing RF cable.
- How are cell towers with both RF and Fiber tested, inspected and repaired?

Copper + Fiber Cable:

- How can they be connected?
- How is it installed, tested, repaired, maintained.

Testing and Trouble Shooting:

- Review the processes and procedures of testing the RF cable from base station BBU to the antenna, including:

- RF cable parameters and VSWR of antenna.
- Review the basics of fiber optic cable testing including:
- Cleaning and inspection of connectors, optical budget and loss testing, loop back testing of fiber to the antenna, OTDR, installation and acceptance testing.
- Total testing of Cell tower which includes RF cable as well as Fiber in a configuration of FTTA, RRH and DAS.

Repair:

- Review and get an understanding of how cell towers are repaired and what processes and procedures are involved in the repair of a cell tower

◆ **Elkins Training Company**

60+ years of experience in technical training, testing and licensing

Approved Fiber Optic Association (FOA) Training Provider (#304)



GSA Approved

◆ **The Course**

- Presented in a step-by-step, easy to follow format
- 25 hour, 5 day course - business day or after-hours class
- Includes academic and **HANDS-ON TRAINING**
- Tuition includes instruction, required fees and required books
- Course cost: \$1995 (\$1835-GSA)
- **Training Provider Name: Elkins Training Company**
www.elkinstraining.com Address: P.O. Box 2677, Santa Rosa, CA 95405 Phone: 707-792-5678
- Fax: 707- 792- 5677 **Contact Person at School: David Byrd**