



**S & S Solutions, LLC**

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## **CFOT FOA Course Outline**

### **Instructor: Buck Spears**

This 3-day fiber optic tech course is designed for anyone interested in becoming a Certified Fiber Optic Technician. This Fiber Optic Training combines theory and 85% hands-on activities to prepare the student to take the CFOT (Certified Fiber Optic Technician) test that is sanctioned by the FOA (Fiber Optics Association) and given and graded the final class day. This course also introduces the student to industry standards governing FTTD (Fiber To The Desk), FTTH (Fiber To The Home), and Distribution Cabling. Students will learn how to identify fiber types, recognize various connectors used in fiber installation; and install, terminate, splice, and properly test installed fiber cable to existing standards.

This program explores the history and future of fiber optics and fiber optics capabilities, and basic testing and troubleshooting. Anyone interested in becoming a Certified Fiber Optics Technician should attend this class. Course fee includes study materials, exam fees, and Text Book.

*The student must pass both the written and hands on exams to successfully pass this course. Course fee includes all books study materials, exams and 1-year membership to the FOA.*

*Note: Actual number of hours may vary depending on number of students.*

## Course Objective:

Program prepares the student to take the CFOT (Certified Fiber Optics Technician) exam given and graded at the end of class. Student will be able to effectively and efficiently install, terminate, and test fiber optic networks to existing standards.

## Prerequisite:

Able to see, identify and manipulate small items and be able to read and speak the English language.

## Location:

We offer 2 options for this course. Our facility in Mesa Arizona. Or if you can't make it to Arizona No problem! With just six (6) or more students. Our Fiber School can send the classroom to you! We offer custom, on-site training for CFOT course.

## Tuition:

\$1,200 per student. We do offer a 15% military discount for active duty and vets.

Course fee includes all study materials and consumables, exam fee and 1 year membership to the FOA

## Textbook:

Fiber Optics Technician's Reference Manual by Jim Hayes. Supplementary study materials includes Student Lab Manual.

## Course Schedule:

**Basic Fiber Optic Theory:** Overview of fiber optics, applications, components, installation and testing.

**Fiber Optic Cable:** Types of fiber optic cables, choosing appropriate types, installation, handling and preparation for splicing or termination

**Fiber Optic Termination:** All about connectors, termination types: adhesive/polish (epoxy, anaerobic, HotMelt), prepolished splice, singlemode polishing

**Fiber Optic Splicing:** Splicing types, mechanical, fusion, ribbon fusion.

**Fiber Optic Testing:** Overview of testing requirements and standards, visual inspection, power, loss, OTDR, bandwidth.

**OTDRs:** How OTDRs work and how to interpret traces

**Fiber to the Home (FTTH):** Overview of FTTH applications and technology, PON types.