

CERTIFIED FIBER OPTIC TECHNICIAN TRAINING-C.F.O.T

PROGRAM OVERVIEW:

Telecommunications, manufacturing, data centers and, increasingly, utilities companies are relying on fiber optics technology for secure and effective data communication. Certified Fiber Optic Technician (CFOT) training is a 5-day certification program that combines the physics and science of fiber optics with instruction on optical fiber transmission, cable construction, safety codes, loss budget analysis and industry standards.

At the end of the training a certification exam will be administered. After successful completion, participants will be awarded with Certified Fiber Optic Technician certificate (CFOT) by the Fiber Optic Association (FOA) based in USA. FOA is a international non-profit professional society for the fiber optic industry. Its charter is to develop educational programs, approve training courses, certify fiber optic and premises cabling technicians, participate in standards-making processes and generally promote fiber optics. The FOA has certified over 43,000 CFOTs (Certified Fiber Optic Technicians) worldwide.

OBJECTIVES:

- Determine appropriate fiber for different applications,
- Inspect, install and test connectors,
- Identify damage to cables and associated causes,
- Install fiber optic cable,
- Test fiber optic cable for EIA/TIA acceptable losses,
- Utilize an optical time domain reflectometer (OTDR) and light source/power meter,
- Install mechanical and fusion splices to EIA/TIA standards,
- Identify and specify components for a fiber optic system,
- Budget for losses in fiber optic systems,
- Utilize attenuators to adjust power levels (DBM) at the receiver among other fiber optic installation best practices.

WHO SHOULD ATTEND?

This course is intended for telecommunication technicians and engineers, and any personnel that engages in fiber optics systems and projects.



TRAINING SCHEDULE

DAY 1	Start Time	End Time
Introductions: Trainer, Course and Participants	8:30AM	9:00AM
Introduction to Fiber Optic Assoc. (FOA)	9:05AM	10:10AM
1st Tea Break	10:15AM	10:30AM
Fiber Optics Theory (Power Point Presentation)	10:35AM	12:55PM
Lunch	1:00PM	2:00PM
Introduction to Fiber Optics Connectors (Power Point Presentation)	2:05PM	3:10PM
Introduction to Fiber Optics Cables (Power Point Presentation)		
2nd Tea Break	3:15 PM	3:30PM
Mechanical Splicing Theory (Power Point Presentation)	3:30PM	5:00PM
<i>Review of Day 1 Course Topics End of Day 1</i>		
DAY 2	Start Time	End Time
Review of Fiber Optics Theory	8:30AM	9:00AM
Introduction to Fiber Optics Safety	9:15AM	10:10AM
1st Tea Break	10:15AM	10:30AM
Labs: Mechanical splicing Techniques	10:35AM	12:55PM
Lunch Break	1:00PM	2:00PM
Labs: Mechanical Splicing Techniques	2:05PM	4:35PM
2nd Tea Break	4.45PM	5.00PM
<i>Review of Day 1 & 2 Course topics. end of Day 2</i>		



DAY 3	Start Time	End Time
LABS: Continuation Mechanical Splicing	8:30AM	10:10AM
1st Tea Break	10:15AM	10:30AM
LABS: Introduction to Fiber Optics Testing Methods	10:35AM	1:00PM
Lunch Break	1:05PM	2:00PM
LABS: Introduction to Fusion Splicing	2:05PM	3:15PM
2nd Tea Break	3:20PM	3:35PM
Continuation Fusion Splicing	3:40PM	5:00PM
<i>Review of Days 1,2 and 3, end of Day 3</i>		
DAY 4	Start Time	End Time
LABS: OTDR Testing Methods and Trace Analysis	8:30AM	10:15AM
1st Tea Break	10:20AM	10:35AM
Loss Budget calculations	10:40AM	1:00PM
Lunch Break	1:00PM	2:00PM
Fiber Optics Planning, installation and Restoration.	2:05PM	3:15PM
2nd Tea Break	3:20PM	3:35PM
Certification Preparation	3:40PM	4.30PM
DAY 5	Start Time	End Time
FOA certification Exam	9:00AM	11:00AM
Certificate of participation award, feedback collection, course wrap-up & closing remarks		

