



# Fiber Optic Network Design

## COURSE OVERVIEW

MODULE:  
CFOS/D – FOA - CERTIFIED FIBER OPTIC  
NETWORK DESIGN

MODULE NUMBER:  
TEL2007

Our mission is to provide our students with the process of fiber optic design and its implementation. This program explores the facets of designing fiber optic networks – from choosing components, proposed routing, testing and documenting to creating a plan and managing installation.



### COMPETENCIES GAINED

Students will prove their competence in the following:

- ▶ What is involved in designing a fiber optic network
- ▶ How to choose components appropriate for communications systems
- ▶ How the proposed routing of the cable plant affects component choice and installation
- ▶ Using loss budgets to ensure the communications systems will work over the fiber optic proposed cable plant
- ▶ How to determine what should be tested and documented
- ▶ What paperwork and documentation will be needed for the project
- ▶ How to create a plan to install the project
- ▶ How to manage the installation



### WHO SHOULD ATTEND THE COURSE

Anyone who is to be employed in design, configuration, installation, testing, troubleshooting, or Fiber Optic communication systems and network: System Analysts, Design Engineers, Network Owners, Facilities Managers, Estimators, Telecommunication Professionals, Electronics Technicians, Electrical and Mechanical Technicians, IT Professionals, Contractors, Installers and Architects involved in the network design of fiber optics, etc.



### PREREQUISITES

Participants must be computer literate and with CFOT training and certification (FOA approved school and certification)



### LOCATION

- ▶ At our technical Training Centre Manila, Philippines OR
- ▶ We come to your Country Location and deliver the training at your preferred location (for interested companies with minimum number of students)



### COURSE DURATION

- ▶ 3 days + FOA Certification Exam Time



### CERTIFICATIONS

A SubNet Certificate of Attendance is issued as standard and SubNet can (recommended) give the student the FOA (The Fiber Optic Association) certification exam immediately after the course ends and International Certification issued when exam is passed.



## FIBER OPTICS NETWORK DESIGN COURSE CONTENT

### DAY 1

- ▶ Introduction to Fiber Optic Design
- ▶ Overview of Fiber Optic Applications and Installations for both Outside Plant and Premises
- ▶ Planning a Fiber Optic Network

### DAY 3

- ▶ Project design Estimation
- ▶ Managing the Project
- ▶ Hands-On Session and Case Studies:
  - ▶ Design Case Studies
  - ▶ Fiber To The Home
  - ▶ Metropolitan Telecom Network
  - ▶ Long Distance Telecom Network
  - ▶ Corporate LAN Backbone
  - ▶ Campus LAN Backbone
  - ▶ Industrial Link
  - ▶ Data Center
  - ▶ CCTV Surveillance Link
  - ▶ Metropolitan Government Network
  - ▶ Passive Optical LAN (OLAN)
  - ▶ FTTH MDU
- ▶ Competency Assessment, Conclusion FOA Certification Exam and Evaluation

### DAY 2

- ▶ Components Selections
- ▶ Testing And Documentation
- ▶ Project Specification and other documentation

### SubNet Services, Ltd.

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