

Basic Fiber Optic Theory

This is a basic orientation course in fiber optics. You get a basic knowledge of how a fiber optic network is built. You will learn the basic optical requirements for fiber optics, how a fiber produced, and the various fiber-optic parameters (and the technical terms), further, the reasons on how to choose the right optical fiber cable, how to install a fiber network, how cables and fibers are spliced and measured. Much of the second day is devoted to FTTX networks.

Course content:

- Basic fiber optics
- Choosing the right optical fiber cable
- The installation of fiber optic networks
- Splicing of fiber optic networks
- Measurement
- Networks and nodes
- Modern network construction
- Optical components
- Optical communications
- WDM
- Simple link design
- A look into the future

This course is for:

You who work with public networks, metro networks, municipal networks, or more private networks. For those of you who work with planning, marketing, development, installation or operation of systems for information communications networks, and for those who want to get a glimpse of the future development of broadband networks, metro networks, etc.

Course Objectives:

After the course, you have been given a thorough introduction to the fiber optic communication technologies, current applications and future developments.

Requirements:

The course requires no direct knowledge but a general knowledge in the subject area increases the yield of the course.

Course duration:

2 days

Rev 2010-02-20