

# Fiber Optics for Managers

| Course Number  | Delivery Method                      | Course Length       | Language of Instruction |
|----------------|--------------------------------------|---------------------|-------------------------|
| TT-FiberMgr-VC | Instructor-Led via Virtual Classroom | 2 two-hour sessions | English                 |

## Synopsis

This lesson is an "Introduction to Fiber Optics and Fiber Types", it contains general information covering: Light-Emitting diodes (LEDs) and lasers, fiber manufacturing, fiber characteristics and specialty fiber. This is the first course and is the prerequisite for all future courses in the JDSU Fiber Curriculum that results in ETA FOT (Electronics Technicians Association - Fiber Optics Technician) certification.

## Prerequisites

None

## Who Should Attend

This course is designed for managers, technicians, engineers, and technical support personnel who directly or indirectly work with fiber optic cable, connectors or fiber optic systems.

## Course Goals

Upon completion of this course, participants will be able to:

- Explain the differences between LEDs and lasers
- Explain how fiber is manufactured
- List different types of fiber and their use
- Explain the differences in single mode fiber and multi mode fiber
- Identify single mode fiber from multi mode

## Course Outline

### Virtual Classroom 1

- Introduction
- Typical Lightwave System
- Lightwave Sources
- Lightwave Detectors
- Optical Fiber
- Fiber Drawing Process
- Fiber Geometry
  - Multimode Fiber (50/125 $\mu$ m)
  - Enhanced Multimode Fiber (62.5/125 $\mu$ m)
  - Multimode Stepped-Index Fiber
  - Multimode Graded-Index Fiber
  - Singlemode Fiber
- Speciality Fibers
- Optical Loss
- Fiber Parameters

### Virtual Classroom 2

- Product Terms
- Cable/Fiber Identification
- OSP Cable Design
- Ordering Codes
- Outside Plant Cable Splices
  - Fusion Splices
  - 3M Mechanical Splice
- Building Cables
- Building Cable Connectors
- Care and Cleaning of Fiber and Connectors
- Introduction to testing equipment and testing of fiber systems

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Virtual Classroom session breakouts are approximate.

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