

Introduction to Fiber-Optics

The objective of the Fiber-Optics Basics course is to introduce participants to new tools and equipment for fiber optic splicing and testing and the safety required to work with glass conductors.

This class is designed to be hands-on with direct instructor supervision to optimize time in class. Class size will be a 5:1 ratio of students to instructors per session. Class sessions will be held in the BICSI room. Completion of this course will be two nights at four hours each.

Session topics

1. **Safety**
2. **Tools and materials**
3. **Crimp-on and Fusion connectors**
4. **Functions and use of fusion slicer**
5. **Function and use of ODTR meter**

Session 1- General safety and tools/ use of fusion slicer

Discuss required PPE and procedures for fiber optics

- Safety glasses
- Nitril gloves (if needed)
- Tweezers
- Safety mats/ disposal bin

Use of fusion slicers and crimp-on connectors/ use of tools

- Multi-mode connectors and splicer
- Single-mode connectors and splicer

Session 2- ODTR meter

Programing and use of ODTR meter

- Loss signal test
- Visual light test