

Course Name: Fiber Optic Splicing

Course Overview:

This course is a basic introduction to optical fiber safety, fiber preparation, optical fiber cleaving, and different fiber splicing techniques. The course provides an in depth comparison of core alignment versus fixed v-groove fusion splicing technology. Includes extensive hands-on training to optical fiber cleaving and fusion splicing with both core alignment and fixed V-groove fusion splicing equipment.

Course Length: 1 Day

Who should attend?

- Field Service Technicians
- Field Engineers
- Managers/ Field Supervisors
- Design Engineers
- Electricians
- Managers or Supervisors

Prerequisites: None

Customizable Course: Yes

Course Content:

Fiber Optic Safety Overview Fiber Splicing

- Applications for splicing
- Selection of splice technologies
- Selection of splice solution
 - Mechanical
 - Fusion
- Types of fusion splicers:
 - V-groove alignment
 - Core alignment
 - Mass fusion

Fiber Splicing Process

- Fiber Preparation
 - Materials
 - Process
- Fiber Cleaving
 - Mechanical
 - Bench Top
- Fusion Splicing



- Splicer Parts
- Splicing Mechanics
- Splice Loss Assessment
- Protective Sleeves
- Heater

Tips for Successful Field Splicing

- Cleaning and Adjusting Cleaver
- V-groove Cleaning
- Electrode Condition
- Arc Calibration

Practical Exercise

- Demonstrate proper fiber cleaning and cleaving techniques
- Splicing – Each student will complete
 - Cleaning and cleaving of 250um cladded fiber
 - Cleaning and Cleaving of 900um buffered fiber

Practical Exercise

- Demonstrate proper splicing techniques with V-groove alignment fusion splicers
- Demonstrate proper splicing techniques with core alignment fusion splicers