Hands-On

Fiber Optic Advanced Splicing

Course Description

This 2-day Hands-On course provides Real-World Experience to fiber optic mechanical and fusion splicing. The course material covers a range of splicing applications and prepares each student to understand premise (ISP) and outside plant (OSP) splicing as well as maintenance skills used for fiber optic cabling. Each student will be involved in Hands-On labs to reinforce the course topics.

Students Will Learn

- To Understand Fusion Splicing
- To Understand Mechanical Splicing
- Fiber Optic Cable Loss Factors
- To Understand OSP Splice Enclosures
- To Understand Premise Patch/Splice Enclosures
- Multi-Strand SM & MM Premise Style Fiber Optic Cable Splicing
- Multi-Strand SM OSP Fiber Optic Cable Splicing
- Splitting Loose Tubes in OSP Cable for Fusion Splicing
- Fiber Optic Cable Routing in a Premise and OSP Environment
- And More

Target Audience

This training is geared towards Field Supervisors and Technicians who need a good working knowledge of fiber optic splicing and require the ability to perform splicing of fiber optic cables and pigtails in premise and OSP environments. After completing this course, you will have the

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ease of mind that you will be able to perform all the necessary functions required for fusion and mechanical splicing of fiber optic cable.

Prerequisites

A basic to in-depth understanding of Fiber Optic Technologies. This information can be obtained in our Courses
- Understanding Fiber Optics 2 days
- Hands-On Fiber Optic ISP/OSP (Splicing, Terminating & Testing Inside & Outside Plant Cabling)

Course Outline

Lesson I

- Principle of Communication Fiber Optics
- Safety with Fiber Optics
- Fiber Optic Cable Types
- Understanding Fusion Splicing
- Understanding Mechanical Splicing
- Fiber Optic Cable Loss Factors
- Splice Loss Factors
- LID Versus PAS Fusion Splicing
- Understanding OSP Splice Enclosures
- Understanding Premise Patch/Splice Enclosures
- Protecting a Fusion and/or Mechanical Splice
- Understanding Communication System Splice Loss Budgets
- Selecting the Right Fusion Splicer for Your Applications

Lesson 2

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- Multi-Strand SM & MM Premise Style Fiber Optic Cable Splicing
- Multi-Strand SM OSP Fiber Optic Cable Splicing
- Simplex and Bare Fiber Cable Splicing
- Splitting Loose Tubes in OSP Cable for Fusion Splicing
- Fusion Splicing Using a Premise Style Cable Patch/Splice Enclosure
- Fusion Splicing Using an OSP Style Cable Splice Enclosure
- “Live Fiber” SM Mechanical Splicing
- “Live Fiber” SM Fusion Splicing
- Fiber Optic Cable Routing in a Premise and OSP Environment
- Splicing Documentation and Review

Delivery Method

Instructor led with numerous Hands-On labs and exercises.

Equipment Requirements

(This apply's to our hands-on courses only)

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

Course Length

2 Days

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