

Hands-On

# Fiber Optic Advanced Splicing



## Course Description

This 2-day Hands-On course provides Advanced fiber optic mechanical and fusion 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...

BTS recognizes that installers and or contractors often have a difficult time getting certified and getting the Hands-On experience needed to do the job. To many courses are focused toward test and exam questions, rather than the understanding and Hands-On Skill-Set to do the job inline with today's standards and competencies.



Our Certification Course to become a Fiber Optic Certified Splicer is designed to get attendees up to speed quickly on industry standards, provide proper splicing, knowledge and get Hands-On training that covers the latest standards, tools, and techniques used today's Fiber Splicing, and give them the ability to represent themselves as "Fiber Optic Certified Splicer."

Attendees will be taught how to properly splice fiber, both fusion and mechanical fiber system. Also, in today's environments technicians need to be able to properly inspect and repair faulty connectors. A portion of this course is used to cover termination techniques and testing of connectors, patch cords and couplers if needed.

BTS's Certification Course to become a BTS Certified Splicer. It is taught by SME certified structured cable specialists with over 25 years of industry experience that includes fiber optic installations, upgrades, cut-overs and consulting for Telephone Companies, Power Energy Companies, United States Federal State Governments, School Districts, and major U.S. Corporations.

Our SMEs have the field experience to find the answers to real live scenarios, providing students with a Real-World Experience.

Attendees each get a Certification Certificate upon completion of this course.

### Benefits

- Maximize system performance and reliability by learning today's Splicing techniques.
- Be aware of current industry standards, and become a trusted resource for your customer.
- Gain customer confidence by ensuring the integrity of their fiber splicing abilities and support.
- Hold a Certification Fiber Splicing Card that represents your Certification.
- BTS Certificate remains on electronic record and can be confirmed and reissued at any time.
- This Certification is Nationally and Internationally Recognized.

## 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 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

- Essentials 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**

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  
And More...

## **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