

Workshop - Fiber Optic Splicing for Technicians

Course Number	Delivery Method	Course Length	Language of Instruction
TT-Fiber-Splice-WS	Instructor-Led at Customer Site	1 Day On-Site	English

Synopsis

This lab-only workshop covers both mechanical splicing and fusion splicing of 900um and 250um fibers ranging from one fiber to mass fusion of up to 12 fibers at one time. This is the fourth course of the JDSU Fiber Series and is a prerequisite for the ETA FOT (Electronics Technicians Association - Fiber Optics Technician) certification.

Prerequisites

OTDR Workshop (TT-OTDR-WS) or industry experience in performing measurements on fiber systems using OTDRs.

Who Should Attend

This course is designed for technicians, engineers, and technical support personnel who are directly or indirectly responsible for installing and troubleshooting fiber optic systems.

Course Goals

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

- List safety precautions
- Describe the uses of mechanical splices
- Describe features of the fusion-splicing machine
- Explain how to splice 12-fiber ribbons
- Define different mode functions of the fusion splicing machine
- Make a single fiber splice and a mass fusion splice
- Explain how the fusion machine checks splice loss

Course Outline

Mechanical Splicing

- Preparation for Splicing
- Fiber preparation (Fiber to Fiber Splicing)
- Cleaving the Fiber
- Inserting First Fiber into Splice
- Inserting Second Fiber into Splice
- Splice Re-entry
- Securing Fibers in the Splice
- InSppection of the Splice
- Buffered Fiber Preparation (900- μ m Tight and Loose Buffer)

Fusion Splicing

- Introduction
- Assembled Stranded Fiber (ASF) Ribbon
- Speciality Fibers

- Description of the Fusion machine
- Console Panel
- Splicing Ribbon Overview
- Procedures for Splicing
- Correct placement of fiber in splice closure
- Splice Tray
- Splicing Set Up Job Aid
- Heat Shrink Protective Sleeve
 - Splice inspection and tensile strength test
 - Replacement of electrodes and cleaning objective lenses
 - ARC setting
 - Summary

Hands-On Fusion Splicing

To order and schedule training, call toll free 1-866-228-3762
Or visit www.jdsu.com/training.

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