

Splicing Deep Dive Workshop

Detailed Course Outline



This immersive instructor-led workshop focuses on the setup, operation, maintenance, and reporting aspects of fusion splicing. In this predominantly hands-on course, students will learn the proper usage of various types of fusion splicing equipment and best practices for preparing and splicing single fiber, ribbon fiber, and fusion splice connectors. Students will develop expertise through immersive hands-on practice exercises that go beyond typical exposure and manufacturer-hosted training. Other areas covered during the course include cable preparation, proper routing of splice trays, and documenting results. Upon completion, students will be prepared to apply the skills learned in the field.

This course will have a maximum ratio of eight (8) students per instructor. Although the class is fully equipped, students are encouraged to bring their own fusion splicing equipment to class.

Prerequisites: Any Light Brigade foundational level course such as Fiber Optics 1-2-3, Broadband Fiber Optic Technician Level 1, Fiber Optics for Utilities Level 1, or equivalent field experience.

Certifications and Credits: Light Brigade Digital Credentialing
Sumitomo Advanced Fusion Splice Skills Digital Credentialing

Course Content

Splicing Basics Overview

- Types
- Operation
- Settings
- Anatomy of a splicer
- Maintenance
- Cleaning
- Cable types

Hands-on: Fixed V-groove Splicers

- Menu navigation
- Arc check/calibration
- Cable/fiber preparation
- Splice fibers (min. 12x)

Hands-on: Active Cladding Align Splicers

- Menu navigation
- Arc check/calibration
- Cable/fiber preparation
- Splice fibers (min. 12x)

Hands-on: Active Core Align Splicers

- Menu navigation
- Arc check/calibration

- Cable/fiber preparation
- Splice fibers (min. 12x)

Hands-on: Ribbon Splicers

- Menu navigation
- Arc check/calibration
- Cable/fiber preparation
- Ribbonizing discrete fibers
- Splice fibers (min. 12x)

Hands-On: Splice Tray Preparation

- Single fiber routing and dressing (min. 12X)
- Ribbon fiber routing and dressing (12X 12F)

Hands-On: Fuse-on Connectors

- Single fiber fusion splice connectors (min. 4)

Hands-On: Documentation

- Record retrieval
- Documentation and reporting software apps

Wrap-up and Review

- Submit completed skills assessment
- Review and Q&A
- Class survey

