

CERTIFIED Fiber Optic Specialist Splicing (CFOS/S)

Course Description: This 2-day, 16-hour (*appx.) Splicing Specialist Training includes a complete PowerPoint presentation explaining the importance of high-performance splicing and further details the points necessary to achieve these splices. The depth of this presentation is much greater than most textbooks and provides background information about splicing that is very important to the



student. An overview of OTDR functions and trace understanding is also provided during this presentation. 85% hands-on classroom activities will provide training in both fusion and

mechanical splicing of either single or multimode fiber optic cables. Inside or outside plant fiber optic cable types will be utilized at instructor's discretion during these hands-on sessions along with fiber optics enclosures and splice trays. The student will be responsible for successfully making and testing both mechanical and fusion splices. In addition to the basic splicing activities outlined above, the student will further be required to correctly and efficiently install spliced fibers into splice trays and enclosures. The student will further be required to achieve a splice loss of less than 0.15 dB for all splices and demonstrate proficiency in interpretation of splice loss using OTDR splice traces.

This course is recognized by The US Department of Labor and is sanctioned by the Fiber Optic Association (FOA).

Prerequisite: FOA CFOT Course. As of January 1, 2015, the student MUST have successfully passed the basic CFOT course within the preceding 12 months or have renewed their FOA membership within that time frame prior to attending the CFOS/T, CFOS/S, and/or the CFOS/O FOA Specialist courses offered by BDI Datalynk. There are no exceptions. Students are encouraged to register for all courses being offered at the individual locations with the understanding that the CFOT is the prerequisite for all other courses and it must be successfully completed first prior to attending any of the other specialist courses.

Course Objective: Program prepares the student to take the CFOS/S (Certified Fiber Optics Specialist/Splicing) exam that is sanctioned by the FOA (Fiber Optics Association). The exam is given and graded the final day of class.

Textbook: Fiber Optic Technician’s Reference Guide to Fiber Optics written by Jim Hayes, President of the Fiber Optic Association (FOA).

METHOD OF ASSESSING WHETHER COURSE OBJECTIVE WAS MET: Along with chapter tests, class discussions, and substantial hands-on activities, the CFOS/S exam (both written and practical) is given and graded at the end of the class. Students will receive a certification at the end of the program which is sanctioned by the Fiber Optic Association.

Instructor(s): As assigned by BDI DataLynk

Contact (Instructional) Hours: 16 – Hours*

**Note: Actual number of hours may vary depending on number of students.*

Location: Your Facility. Classroom must be available for the duration of course.

Tools/Instructional Materials Needed: A Projection Screen for Power Point presentations, a chalk or “white” board, Tables and chairs (no small desks please).

Particular Physical Demand(s) on student: Student should be physically able to see, identify, install, and test fiber optics connectors safely and efficiently. Must be able to manipulate small hand tools.

Textbook: Fiber Optics Technician’s Reference Manual by Jim Hayes, Supplementary Study Materials, and Student Lab Manual.

Course Schedule:

Day – 1:

- Review of Fiber Optics Basics
- Review of Fiber Optics Networking Standards
- Fiber Optics Safety.
- Fiber Cable Preparation
- Fusion & Mechanical Splicing Process
- Splice Troubleshooting
- Hands-on Session Begins. Students must build test and troubleshoot actual fiber optics cable plant using pigtailed with both fusion and mechanical splicing techniques to industry standards.

- Hands-on Session Continues
- Wall Mount Enclosures and Installation with splices (both fusion and mechanical),
- Hands-on Practical (Splicing Troubleshooting Exam)
- Review
- Written Exam
- Test Results, Exam Discussion, and Questions
- Students must pass both written and hands on exams to receive FOA Certification.

Day – 2: