

CSIR 2002

Course syllabus

1. Name of Course:

Certified Fiber Optics Splicing Specialist Technician Course (CFOS/S)

2. Number of clock hours:

16 hours

3. Course Description:

This 2-day program includes a complete PowerPoint presentation explaining the importance 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. 75% hands-on classroom activities will provide training in both fusion and mechanical splicing of both single and multi mode fiber optic cables. Both inside and outside plant fiber optic cable types will be utilized during these hands-on sessions along with inside and outside plant enclosures and splice trays. The student will be responsible for successfully making and testing both single mode and multi mode 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 trays in enclosures. These enclosures will include both rack and wall mounted splice enclosures, as well as, outside plant 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 program is approved for BICSI CECs (Continuing Education Credits): RCDD 14 CECs and INS, Level 2/Technician CECs - 14**

Suggested Prerequisite: CFOT Course or another Formal Fiber Optics Training Course within preceding 6 months, or 1 Year Fiber Optics Related Experience. Specifically: Experience with fiber preparation, termination, and testing and a thorough knowledge of fiber optic safety practices.

Note: Anyone can attend this program. However, those wishing to become registered with the FOA as a Certified Fiber Optic Specialist in Splicing (CFOS/S) must have taken and passed the Basic CFOT Exam.

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. There is Registration Fee of \$25.00 to the FOA should the FOA Registered CFOT wish to register his new CFOS/S certification with the FOA.

METHOD OF ASSESSING WHETHER COURSE OBJECTIVE WAS MET:

CFOS/S test is given and graded at the end of the class. A hands-on practical exam is given to insure student is proficient in installing and making mechanical and fusion splices according to industry standards.

Instructor(s): Bob Ballard, RCDD, CFOS, CFOI. Contact phone number: 512-785-9024, Email: bob@bdidatalynk.com

Contact (Instructional) Hours: 16 - Hours

Location: Your Facility (Room must be available for the duration of the class period).

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.

Maximum Number of Students: 16

Minimum Number of Students: 6

Textbook: Fiber Optics Technician’s Manual, 3rd Edition by Jim Hayes, Supplementary Study Materials Include Workbook and Student Lab Manual. Course fee includes all study materials and consumables. See BDI Web site at www.bdidatalynk.com for complete textbook description.

Terms of Payment: Net 15 Days. Unless otherwise agreed upon, BDI DataLynk will submit an invoice to reflect number of attending students at the end of the course.

Course Schedule

Day – 1:

- Review of Fiber Optics Basics
- Review of Fiber Optics Networking Standards
- Fiber Optics Safety.
- Fiber Cable Preparation and Mid-Span Access
- Fusion & Mechanical Splicing Process
- Splice Troubleshooting

- Hands-on Session Begins

Day – 2:

- Hands-on Session Continues
- OSP Enclosures and Installation
- Hands-on Troubleshooting Exam
- Review
- Written Exam
- Test Results, Exam Discussion, and Questions