

Collin College - Continuing Education
COURSE SYLLABUS

COURSE INFORMATION

Course Number: FIBR 7370

Course Title: **Certified Fiber Optics Specialist – Splicing (CFOS/S)**

Course Description: This 2-day 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.

Classroom activities will provide 85% hands-on training in both fusion and mechanical splicing of either single or multi-mode 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 also 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.

Suggested Course Prerequisite(s): Successful completion of FOA CFOT Course within the preceding 12 months or renewal of FOA membership during that time frame. This course may be taken immediately after successfully completing the CFOT course.

Course Resources: **All materials provided in class including the certification exam.**

Student Learning Outcomes: 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. Students will receive a Certificate of Completion at the end of the program.

Certification Notes:

Refund Policy: Please refer to www.collin.edu/ce/inforegistrar.html for our refund policy. No refunds after the start time of the first class.

Americans with Disabilities Act: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.

Course Sessions: Listed are guidelines to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

Session 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

Session 2:

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

Note: Students must pass both written and hands on exams to receive FOA Certification.