

Collin College - Continuing Education COURSE SYLLABUS

COURSE INFORMATION

Course Number: FIBR 7380

Course Title: Certified Fiber Optics specialist – Outside Plant (CFOS/O)

Course Description: This 2-day, 16 hour fiber optic specialist course is for students who will be directly involved with installing Outside Plant (OSP) Fiber Optics Cabling. Further, it is an add-on course to their FOA portfolio once they have successfully completed the 3-day, basic CFOT course and can be taken concurrently with the CFOT course. This advanced Fiber Optic Training combines lecture sessions and 85% hands-on activities to prepare the student to take the CFOS/O, OSP hands on and written exams that are sanctioned by the FOA (Fiber Optics Association) and given and graded the final class day. **This course introduces the student to industry standards governing the installation, testing, and troubleshooting of OSP fiber optics cable – used in the Outside Plant Rugged Environment.**

Students will learn how to properly identify OSP fiber cabling types, recognize various outside plant closures used in OSP fiber installation, install, prepare, terminate, splice, and properly test and troubleshoot installed OSP fiber cable to existing standards.

Hands-on activities include both mechanical and fusion splicing. Course fee includes study materials, Text Book, CD, and exams and 1-year membership to the FOA. Note: **The student must pass both the written and hands on exams to successfully pass this course**

Suggested Course Prerequisite(s): 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. There are no exceptions.

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

Student Learning Outcomes: Program prepares the student to take the Fiber Optics Specialist Outside Plant (OSP) Certification Exam (Written and Hands-On) given at the end of class. Student will be able to effectively and efficiently troubleshoot, test, identify, and repair OSP fiber network cabling, and provide QA (Quality Assurance) procedures to minimize or eliminate future network outages.

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:

1. Introduction: OSP Plant Cabling
2. OSP Cable Preparation
3. Installation of Fan Out Kits and Connectors
4. Hands On activities begin. **Students are required to build, troubleshoot and test an actual, outside plant fiber optics cabling system using armored OSP cable. Must be able to demonstrate both mechanical and fusion splicing techniques in addition to cable preparation procedures and installation into industry recognized OSP splice closures.**
5. Closures: Types and Hardware
6. Splicing: Mechanical and Fusion
7. Preparation and Cleaning of OSP Cable
8. Fiber Optics Safety
9. Hands-on Session Continues.
10. Study Question Review Session

Session 2:

1. Hands On Session Continues
2. OTDR, OLTS, VFL Procedures
3. OSP Fiber Plant Testing, Troubleshooting and Repair
4. Study Question Review Session
5. **Written and Hands-on Exams: Students must pass both written and hands-on exams to receive FOA Certification.**
6. Certificates issued to successful students.