

# FIBER OPTICS

## **SU** NEW! INTRODUCTION TO NETWORK CABLING FIBER OPTICS

Fiber Optics Based Systems provides students with the theoretical and hands-on knowledge of Fiber Optics. Students learn the basics of cable termination, testing, and troubleshooting while using high-tech analysis equipment. During this course students learn the science of light and optics. Hands-on activities give students the experience needed to become entry-level technicians in the Fiber Optics Industry.

Throughout this course students are placed in real-world scenarios with an emphasis on critical thinking, problem solving and proper cable construction. Each activity utilizes project based learning and collaborative team building. **Call for more information.**

DCB 2183-01

## CERTIFIED FIBER OPTIC TECHNICIAN (CFOT)

This introductory course explores the theory and history of fiber optics data transmission and is designed for anyone wanting to become certified in the basic installation, troubleshooting and testing techniques of installed fiber optics networks as required per industry standards. This program includes 85% hands-on activities by allowing you to build and test your own fiber optics network. Certification Exams are administered and graded at the end of the session. You must pass both the written and hands-on exams to successfully pass this course. This course is recognized by The US Department of Labor and is sanctioned by the Fiber Optic Association (FOA). Prerequisites: Basic knowledge of computers; ability to speak and understand the English language. Prices include study materials, exams. One-year membership to FOA.

DCB 2184-01	M-W	3/5-7	8am-5pm	KCS	\$700
DCB 2184-02	M-W	7/30-8/1	8am-5pm	KCS	\$700
DCB 2184-03	M-W	10/15-17	8am-5pm	KCS	\$700

## CERTIFIED FIBER OPTICS SPECIALIST - TESTING & MAINTENANCE (CFOS/T)

This 2-day, program is designed to offer advanced training to anyone involved with the testing and maintenance of fiber optics networks. This comprehensive program explains the variety of testing standards, equipment and technological approaches used in fiber network testing and splicing and how to choose among them. This 85% hands on course explores the overall spectrum of testing and maintenance of singlemode fiber optics networks and provides a detailed overview and demonstration of various pieces of equipment used in testing and maintenance. Subject matter includes a detailed study of ANSI/TIA/EIA-526-(7)A, OTDR fundamentals and uses, OTDR vs. Insertion Loss Testing, Return Loss Testing, and Attenuation testing using the Power Source and Light Meter. This FOA sanctioned fiber optics course is recognized by the US Department of Labor. Prerequisite: Successful completion of the CFOT course within the preceding 12 months.

DCB 2185-01	R/F	3/8-9	8am-5pm	KCS	\$675
DCB 2185-02	R/F	8/2-3	8am-5pm	KCS	\$675
DCB 2185-03	R/F	10/18-19	8am-5pm	KCS	\$675

## CERTIFIED FIBER OPTICS SPLICING SPECIALIST (CFOS/S)

This 2-day, Splicing Specialist Training includes a complete explanation of the importance of high performance splicing and further details the points necessary to achieve these splices. 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. Note: The student must pass both the written and hands on exams to successfully pass this course. Prerequisite: Successful completion of the CFOT course within the preceding 12 months.

DCB 2186-01	S/U	3/10-11	8am-5pm	KCS	\$675
DCB 2186-02	S/U	8/4-5	8am-5pm	KCS	\$675
DCB 2186-03	S/U	10/20-21	8am-5pm	KCS	\$675

## CERTIFIED FIBER OPTICS SPECIALIST OUTSIDE PLANT (CFOS/O)

This fiber optic specialist course is for students who will be directly involved with installing Outside Plant (OSP) Fiber Optics Cabling. This advanced training combines lecture sessions and 85% hands-on activities to prepare you to take the CFOS/O, OSP hands-on and written exams that are sanctioned by the FOA. You 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. Certification Exams are administered and graded at the end of the session. You must pass both the written and hands-on exams to successfully pass this course. This course is recognized by The US Department of Labor and is sanctioned by the Fiber Optic Association (FOA). Prerequisite: Successful completion of the CFOT course within the preceding 12 months.

Prices include study materials, exams. 1-year membership to FOA.

DCB 2187-01	M/T	8/6-7	8am-5pm	KCS	\$775
DCB 2187-02	M/T	10/22-23	8am-5pm	KCS	\$775

