



MONROE COUNTY COMMUNITY COLLEGE

enriching lives

Monroe County Community College is offering three courses in Fiber Optics, beginning Monday, August 23 and ending on Sunday, August 29. (*the days could be shortened if we have less than 8 students) With these three sessions you can become a Certified Fiber Optic Technician with specialist designations in Testing and Splicing. All training is presented by BDI DataLynk, www.bdidatalynk.com. All three courses are sanctioned by the Fiber Optic Association (FOA) and accredited by BICSI, a professional association supporting the information transport systems industry. This partnership offers an unprecedented opportunity for students to learn about fiber optics networking through an internationally recognized fiber optic training company.

The three classes are:

Basic Certified Fiber Optic Technician

ELEC-721-71 - Course description below

August 23-25, 2021

8 a.m. to 5 p.m.

Cost: \$819 per person, includes materials

Certified Fiber Optic Specialist/Testing (CFOS/T)

ELEC 732-71 - Course description below

August 26 & 27, 2021

8 a.m. to 5 p.m.

Cost: \$719 per person, includes materials

Certified Fiber Optic Specialist/Splicing (CFOS/S)

ELEC 722-71 - Course description below

August 28 & 29, 2021

8 a.m. to 5 p.m.

Cost: \$719 per person, includes materials

Basic Certified Fiber Optic Technician

This introductory 3-day fiber optics course is designed for anyone interested in becoming a Certified Fiber Optics Technician. This program combines theory and 75% hands-on activities to prepare the student to take the CFOT (Certified Fiber Optics Technician) test that is sanctioned by the FOA (Fiber Optics Association) and given and graded the final class day. This course also introduces the student to industry standards governing FTTD (Fiber To The Desk), FTTH (Fiber To The Home), LAN/WAN fiber networks, and further introduces the student to basic fusion and mechanical splicing. Students will learn

how to identify fiber types, recognize various connectors used in fiber installation; and install, terminate, splice, and properly test installed fiber cable to existing standards. This program explores the history and future of fiber optics and fiber optics capabilities, and cost of installation. Standards covered:

NECA/FOA-301-2004, EIA/TIA 568-B.3, ANSI/TIA/EIA 607-A, and NEC Article 770-50. Anyone interested in becoming a Certified Fiber Optics Technician should attend this class. **This program is recognized for BICSI CECs (Continuing Education Credits): RCDD 21, Installer Level/2 Technician 12 CECs. Course fee includes all books study materials.**

Certified Fiber Optic Specialist/Testing (CFOS/T)

This 2-day (16-hour) program is designed to offer advanced training to anyone involved with the testing and maintenance of fiber optics networks. A focal point in the program is to offer a general, easy to understand, approach to fiber optics testing standards with little theory and considerable hands on activities. 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 75% hands on course explores the overall spectrum of testing and maintenance of single and multi mode 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-526-14(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 course is approved by BICSI for 14 RCDD CECs and 12 Installation CECs.**

Prerequisites: 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 which can be administered during this class period. If the student is not a registered CFOT with the FOA, the 100-question exam is available to “test out” of the basic, CFOT Course requirement. The fee for this exam is \$145.00.

Certified Fiber Optic Specialist/Splicing (CFOS/S)

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 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**

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To register please contact Renee at (734) 384-4229 or at rdrouillard@monroeccc.edu

To receive an outline of any of these virtual training sessions please email Barry Kinsey at binsey@monroeccc.edu