

FIBER OPTIC & DATA CABLING COURSE DESCRIPTIONS

FIBER OPTIC INSTALLER (FOI)

Fiber Optic Installers are expected to obtain knowledge of basic concepts of fiber optics installation and service which are applicable to all the functions required to safely and competently install fiber optics communications cabling. Once a CFOI has acquired these skills, abilities and knowledge, he or she should be able to enter employment in the telecommunications cabling field. With minimal training in areas unique to the special requirements of individual products or systems designs, the Fiber Optics Installer should become a profitable and efficient part of the workforce.

FIBER OPTIC INSTALLER—OUTSIDE PLANT (FOI-OSP)

The Fiber Optic Installer-Outside Plant certification is designed after the FOI certification, with special emphasis on outside plant applications and standards. The FOI-OSP is expected to obtain knowledge of fiber optics concepts that will allow them to be involved with designing, configuring, installing, and maintaining fiber optic systems specific to Outside Plant. Technicians will also be able to test and troubleshoot a Local Area Network (LAN) system with various faults. This certification is designed for technicians, system analysts, design engineers, managers, telecommunications professionals, fusion splicers, mechanical splicers, end users, etc., in the Fiber Optic-Outside Plant technical field.

FIBER OPTIC TECHNICIAN (FOT)

Fiber Optic Technicians are expected to obtain knowledge of fiber optics concepts that will allow them to be involved with designing, configuring, installing, and maintaining fiber optic systems. Technicians will also be able to test and troubleshoot a Local Area Network (LAN) system with various faults. This certification is designed for technicians, system analysts, design engineers, managers, telecommunications professionals, fusion splicers, mechanical splicers, end users, etc. The prerequisite for the FOT certification is the FOI.

FIBER OPTIC DESIGNER (FOD)

The Electronics Technicians Association (ETA) 40-hour Certified Fiber Optics Designer (CFOD) training program is an optical designer certification that will provide an in-depth knowledge of optical local area networks. This certification covers all aspects of a successful fiber optic system design from network protocols, network configurations, optical cabling, industry communications standards, determination of fiber count, hardware selection, splicing/termination methods, and cable system testing and documentation. All that is learned in class is put into practice through multiple and intensive case studies.

The ETA Certified Fiber Optics Designer program provides detailed instruction and practice of Local Area Network fiber optic design. Successful completion of the program will result in the trainee being certified as a Fiber Optics Designer from Electronics Technicians Association.

DATA CABLING INSTALLER (DCI)

Data cabling installers are expected to obtain knowledge of basic concepts of copper cabling installation and service, which are then applicable to all the functions required to safely and competently install communications cabling. Once a CDCI has acquired these skills, abilities and knowledge, he or she should be able to enter employment in the telecommunications cabling field. With minimal training in areas unique to the special requirements of individual products or systems designs, the Data Cabling Installer should become a profitable and efficient part of the workforce.

BROADBAND - VOICE over INTERNET PROTOCOL (B-VoIP)

B-VoIP technicians are versed in telephone and internet communications. They install, maintain and repair/replace voice, data and video over Internet Protocol equipment. They are capable of interconnecting B-VoIP equipment to local and wide area computer network systems. They are familiar with the many acronyms used in the telecom industry. They are capable of performing cable installation, replacement/modernization and interconnection between different cable types and wireless equipment. They are knowledgeable in all the protocols being used for the telecommunications industry. They are capable of configuring and provisioning B-VoIP equipment and transmission media.

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