# Broadband Fiber Digital Installer

**Program Description:** Broadband professionals will be instructed on what is involved in certifying the reliability of the drop for digital TV, high-speed Internet, and telephone service, as well as step-by-step installation procedures for each service. Because the DOCSIS and PacketCable technologies are unique to the broadband cable industry, the course provides extensive information about their origination and the advantages that each offer. Due to the rapid growth of and interest in home security and home automation within the broadband industry, this course covers the protocols that power the connected home as well as the connected home ecosystem. For the Digital Broadband field practice, we use NCTI courseware, and an internal product called VIPER which is a virtual installation center of 48 different homes. Students are also prepared for the Certified Fiber Optic Technician certification which is the primary certification for all fiber optic technicians, regardless of the applications in which they work. CFOTs have basic knowledge, skills and abilities in fiber optics that can be applied to almost any job type and for almost any application involving fiber optics.

**Program Objective:** Our Broadband Fiber Digital Installer presents background information related to fiber installation practices pertaining to digital TV, Data over Cable Service Interface Specification (DOCSIS®) high-speed Internet, PacketCable™ telephone and home automation services for the connected home. This course covers the protocols, technical knowledge and techniques needed to work as a technician in the Broadband Fiber Digital Installer field. In addition, students are prepared for the End of Course Certification CFOT® . Exam is proctored on-site.

CFOT certification is based on an extensive knowledge of fiber optics technology, components, processes, and applications as well as demonstrated skills in appropriate tasks. CFOT is used by all installers, both outside plant and premises installers, two very different applications, plus component manufacturing technicians, network managers, network designers, etc. A well-prepared fiber optic technician will have a CFOT plus appropriate specialist certifications (CFOS) for the skills needed for the job (OSP, spicing, connectors, testing, design, etc.) and applications (FTTH, OLAN, Wireless, etc.)

**Credential:** Diploma
**Duration:** 109 hours, 3 Weeks
**Program Tuition:** $6,500
**Books:** The cost of books are included in tuition
**Prerequisites:**

- Candidates should be over 18 years of age
- Have a valid driver's license.
- A high school Diploma or GED.
- Candidate Must be willing to travel out of market/state (50% travel minimum)
- Candidate Must be able to pass background, driving record, and drug testing
- Candidate Must be Fit for Duty (Carry 50-75 lbs.)
- Candidate should have no Fear of Heights. (Work is conducted 150-500 feet in the air)
- Basic mechanical skill is a plus
- Ability to work in the outdoor elements (Summer, Winter)
- Candidate must be under 225 lbs.

| Course Number | Course Title | Clock Hours |
|---|---|---|
| **17BB** | **Broadband Fiber Digital Installer** | **109hrs** |
| 17BB – 01 | INSTALLING DIGITAL TELEVISION SERVICES | 16 |
| 17BB – 03 | DOCSIS MODEM OPERATIONS | 14 |
| 17BB – 04 | INSTALLING A DOSCIS MODEM | 12 |
| 17BB – 11 | INSTALLING VoIP WITH ELECTRONIC SECURITY SYSTEMS | 14 |
| 19BF – 12 | OVERVIEW OF FIBER OPTIC APPLICATIONS AND INSTALLATIONS | 05 |
| 19BF – 13 | COMMUNICATIONS SYSTEMS UTILIZING FIBER OPTICS | 08 |
| 19BF – 14 | FIBER OPTIC COMPONENTS APPROPRIATE FOR FIBER OPTIC NETWORKS | 08 |
| 19BF – 15 | INSTALLATION OF PREMISES AND OUTSIDE PLANT FIBER OPTIC CABLE | 08 |
| 19BF – 16 | SPLICING AND TERMINATION | 08 |
| 19BF – 17 | TESTING FIBER OPTIC COMPONENTS AND CABLE PLANTS | 08 |
| 19BF – 18 | HANDS-ON LAB EXERCISES INCLUDING HANDS-ON SPLICING, TERMINATION AND TESTING | 08 |

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