

Certified Cabling Test Technician DTX Series Cable Analyzer with 10Gig AXTalk Testing Course Overview (1.5 Days)

This Fluke Networks Certified Cabling Test Technician (CCTT) class is a 1.5 day onsite event for up to 16 students. CCTT training is a great way to ensure you get the most out of your DTX Series Cable Analyzer test equipment.

- **WHO:** The course is designed for contractors and enterprise network owners who currently own or anticipate owning the DTX-1800 Cable Analyzers with the DTX-10Gig Alien Crosstalk copper testing option.
- **WHY:** The CCTT course provides "expert" level training on the DTX Series Cable Analyzer. When the specification or scope of work requires "certified" technicians on the job, the CCTT course meets and exceeds the requirement. After taking the CCTT course, the technician will be able to better utilize the dynamic capabilities of the DTX cable tester, thus significantly increasing his productivity and competency in the field.
- **WHAT:** The CCTT DTX Series with 10Gig AXTalk (Alien Crosstalk) course is 1.5 days in length. This class covers the current TIA copper + fiber standards (568-B) while integrating extensive hands-on with factory supplied Fluke Networks DTX-1800 Cable Analyzers. On day one, two-thirds of the day concentrates on "in-channel" copper testing and certification, with the balance of time spent on multimode fiber testing and certification. On the second morning, the class focuses exclusively on certifying Cat 6a twisted pair copper cabling (including Alien Crosstalk "between channel" testing) to ensure 10 Gigabit Ethernet performance. At the end of the class, the students will take a certification exam. After successful completion of the class, Fluke Networks will mail certificates to the students. ***This class qualifies for 7 BiCSi continuing education credits.***
- **WHEN:** Due to the popularity of the CCTT program, onsite classes typically schedule 8 to 12 weeks in advance. Class dates are available on a first come, first served basis.
- **WHERE:** The CCTT DTX Series with 10Gig AXTalk Testing course is offered exclusively as an "onsite" class at the customer's facility. The customer is responsible for providing the training room.
- **COST:** Contact Mike Pennacchi at Network Protocol Specialists, LLC (425.433.0777) or e-mail info@cctttraining.com to obtain a quote and schedule a class.

Get more information on the CCTT program at www.cctttraining.com.

**Certified Cabling Test Technician
DTX Series Cable Analyzer with 10Gig AXTalk Testing
Course Outline (1.5 Days)**

Day One – 8am to 5pm

I. Copper Testing and Certification

A. Copper Test and Certification Standards

1. TIA 568-B standards plus an update on 10G Ethernet / Cat 6a
2. Permanent Link versus Channel Testing
3. Testing with accuracy and repeatability

B. Product Overview – DTX Series Cable Analyzer

C. Copper Hands-on Testing and Certifying

1. Proper Setup and Configuration
2. Cable Testing – Passing an Autotest
 - a) Interpreting Results
 - b) Labeling and Saving Tests
3. Cable Testing – Failing an Autotest
 - a) Basic Diagnostics – Fault Info
 - b) Advanced Diagnostics – HDTDX and HDTDR

II. Fiber Testing and Certification

A. Networks and Fiber Basics

B. Fiber Test and Certification Standards

1. TIA 568-B and TSB-140 Fiber Test Standards
2. IEEE Application Standards

C. Fiber Hands-on Testing and Certifying

1. Proper Setup and Configuration
2. Cable Testing per the TIA Standards
 - a) Interpreting TSB-140 Tier 1 Test Results
 - b) Labeling and Saving Tests
 - c) Troubleshooting a Failure

Day Two – 8am to Noon

III. Certifying Twisted Pair Copper for 10Gig Ethernet Operation

A. 10Gig Copper Test and Certification Standards

1. TIA TSB-155 Certification Guidelines
 - a) “In-Channel” Certification
 - b) “Between Channel” Certification
2. Current Draft of TIA Category 6a

B. Hands-on Certification Testing to TSB-155 and Category 6a

1. Proper Setup and Configuration
2. Cable Testing – “In Channel” Testing
 - a) Interpreting Test Results
 - b) Downloading to LinkWare Software on a PC
3. Cable Testing – “Between Channel” AXTalk Testing
 - a) Unit Configuration for ANEXT and AACR-F Testing
 - b) Executing and Saving AXTalk Tests
 - c) Interpreting Test Results and Troubleshooting