

ECFT | EXFO Certified Fiber-optic Training

Get the skills to correctly assess the performance of fiber-optic network cabling infrastructure in data centers and enterprise private networks!



With the exponential growth of data traffic, the emergence of new web-based technologies and applications, the network, and particularly **fiber-optic structure cabling infrastructure** remain one of the most critical pieces of the puzzle to ensure stellar customer quality of experience (QoE) and business-related service level agreements (SLAs).

Course Information

Course Location: On-site training in a location near you.

Schedule: 8:30 a.m. to 4:30 p.m.

Duration: One day

Training available in more than 60 countries.

Who Should Attend?

- › Data center managers and fiber-optic testing technicians
- › Enterprise network managers and fiber-optic testing technicians

EXFO provides a comprehensive program to help the attendee confidently understand, maintain and assess the quality of structured fiber cabling within data centers and enterprise networks. On-site training gives you direct face time with our training expert, who will not only cover theoretical and practical aspects but also provide expert tips on how to use your test gear like a pro in real-world testing situations. Get EXFO certified!

COURSE OUTLINE

6-12 people per course (standard class size)

The attendees will learn what can affect the quality of transmission on data center or enterprise fiber-optic cabling networks and how to identify, diagnose and measure these issues based on the recommended standards and best practices. EXFO has 30 years of experience in the business of fiber-optic network testing and is the world's number one in portable testing.

The training program can be adapted to small and large groups, which allows for a customized and flexible approach. Every session covers both theoretical and practical aspects of the technology, with a focus on real-world testing situations. All exercises have been specially created to give technical staff exactly what they need. We are also available to guide attendees through live test sessions on actual fiber links (extra day, if selected).

Attendees Will:

- › Learn about data center and enterprise network industry standards and best practices for cable certifications (TIA-568 C.3, TIA-942, ANSI/BICSI-02, etc.)
- › Understand the different network topologies (both existing and in development) used in data centers and private networks and their testing challenges
- › Understand the differences related to manual and automated test methods, and learn how to avoid errors associated with manually certifying cable installation versus using the automated Fiber Certifier
- › Be trained on the full capabilities of the test equipment, and their set of accessories to acquire and analyze real-world data to complete cabling certification projects
- › Understand how to generate complete certification reports
- › Qualify for **seven (7) BICSI credits** and **receive ECFT Certified ID card upon completion**

CONTENT	
Tier-1	Tier-2 ^a
<p>Certification Testing</p> <ul style="list-style-type: none"> › Fiber cabling standards IEC, ISO, TIA › End-to-end loss, insertion loss (IL) measurements using a Fiber Certifier OLTS, LS/PM › Encircled-Flux (EF) test conditions › Reference test methods and test cords › Length, polarity, gender and connectivity considerations › Fiber-link pass/fail analysis › Data center fiber-link certification and reporting › Testing and measurements considerations 	<p>Troubleshooting (OTDR/iOLM Test)</p> <ul style="list-style-type: none"> › End-to-end loss › Reflectance, optical return loss (ORL) characterization › OTDR trace and optical link mapper view interpretation › Event pass/fail analysis › Fault finding and event characterization › Troubleshooting
<p>Network Topologies and Fiber Types</p> <ul style="list-style-type: none"> › Overview of the different network topologies and fiber-optic types used in data centers and private networks 	
<p>Fiber-optic Connector Inspection and Maintenance Best Practices</p> <ul style="list-style-type: none"> › Connector endface certification using the FIP-400B Inspection probe with ConnectorMax2 analysis software › Connector endface visual inspection SM/MM/Simplex/Duplex/MTP-MPO › The cleaning phase and methodologies (dry, wet, hybrid) › Visual fault location, fiber identification and traffic detection 	
<p>Report Creation</p> <ul style="list-style-type: none"> › Instant report generation from test sets › Result documentation, analysis, editing and reporting with FastReporter 2 data post-processing software 	
<p>Hands-on Session^b</p> <p>***EXFO recommends one pair of test sets per 3 individuals***</p> <ul style="list-style-type: none"> › Light source and power meter (manual IL method) › MaxTester 9XX Fiber Certifier OLTS setup, configuration and testing (FasTesT™ automated IL method IL method) › OTDR-iOLM set-up, configuration and testing › Simplex, duplex, singlemode, multimode testing 	

Notes:

- a. The ECFT default program covers tier-1 certification and an introduction to tier-2 troubleshooting segment that is adapted to your requirements. If complete tier-1 and tier-2 training is required, an additional day of training shall be required.
- b. Hands-on session will be covered in the one-day training but can be extended over a second day of training on request.

Optional session (Can be a prerequisite for large groups)

Maximize Your Classroom Experience

EXFO Academy, part of the Be-an-Expert training program, provides e-learning training sessions that you and your employees can complete at your own pace. EXFO Academy is designed for groups and offers numerous training possibilities covering a full range of topics.

Tier 1: FE-1150 Introduction to Optical Fiber

Tier 2: FE-1151 OTDR Fundamentals



GET CERTIFIED WITH EXFO'S FIBER-OPTIC CERTIFICATION TRAINING.
BE THE ONE HELPING YOUR CUSTOMERS GO SEAMLESSLY THROUGHOUT
THEIR NETWORK TRANSFORMATIONS.

EXFO

WHEN IT COMES TO
CLEAR, FAST, FIRST-TIME-RIGHT
FIBER SYSTEM ACCEPTANCE...

BLUE IS THE
NEW
YELLOW



MEET THE BLUE CERTIFIER >

