



Consulting and Training | Reach New Heights

Course Name

Fiber Optic Testing, OTDR & Inspection

Sector Name

Instrumentation & Controls

Document Type

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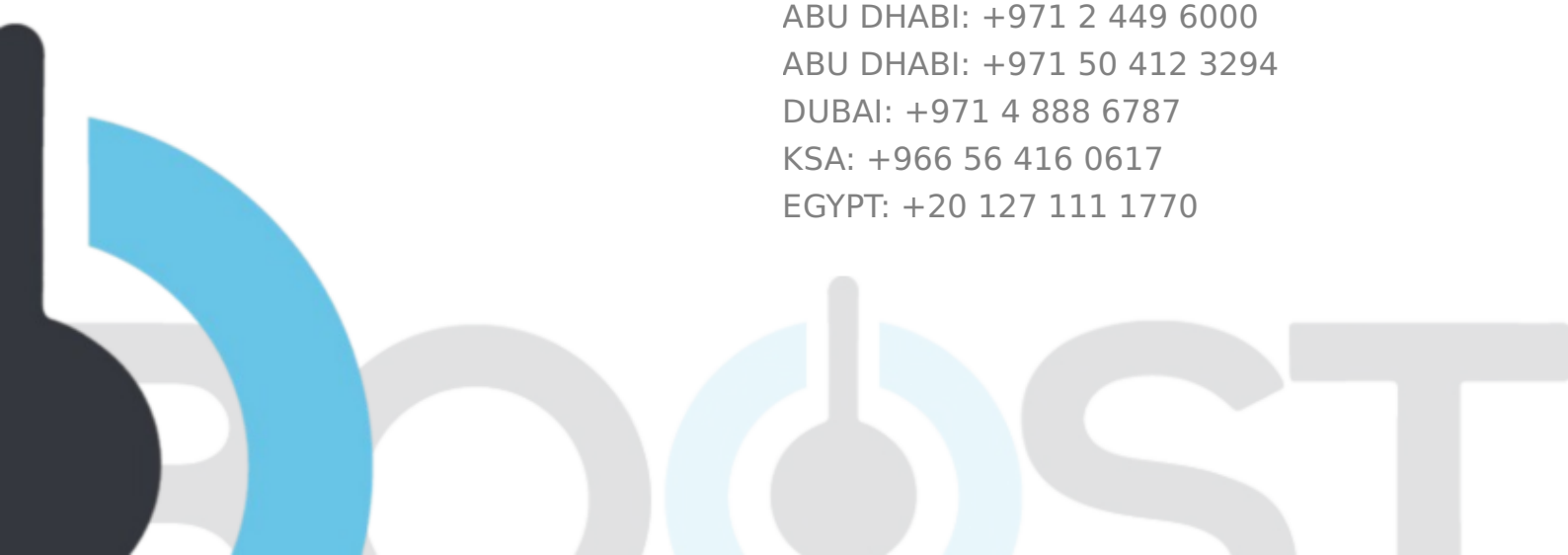
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Fiber Optic Testing, OTDR & Inspection

Course Introduction

While fiber optic is found in any transmission system worldwide, the testing of the fiber optic is one of the most important activities to ensure that the fiber optic link will have a good performance, as well as detect any problem in case of a fault.

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Target Audience

- ✓ Telecommunication
- ✓ Transmission engineers
- ✓ Operators
- ✓ Fiber optic installer
- ✓ Optical communications system installer
- ✓ Site engineers
- ✓ Supervisors

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Learning Objectives

- ✓ Understanding the physics of the optical transmission
- ✓ Learn many techniques to test the fiber optic cables
- ✓ Understand the testing standards and criteria
- ✓ Preparing the test plan
- ✓ Understanding the test procedures
- ✓ Prepare the test documentation

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Course Outline

✓ DAY 01

Introduction & Fundamentals

- ✓ Optical Transmission Fundamentals
- ✓ Why do we need fiber optic testing?
- ✓ Who can test fiber optic?

Fiber optic and connector types

- ✓ SM Fiber optics - G652D, G655, G657
- ✓ MM fiber optics - OM1, OM2, OM3, OM4
- ✓ Fiber optic connectors' types
- ✓ Fiber optic connectors' categories

Test equipment and test parameters

- ✓ Inspection Microscope
- ✓ Fiber tracer
- ✓ VFL
- ✓ Optical power meter
- ✓ OLTS
- ✓ OTDR
- ✓ Variable Attenuator

- ✓ Dispersion Analyzer
- ✓ Spectrum Analyzer

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Course Outline

✓ Day 02

Testing tools and accessories

- ✓ Launch cable
- ✓ Adapters and hybrid adapters
- ✓ Test jumpers

Test criteria and loss equation

- ✓ EIA/TIA 568 standard
- ✓ Loss budget equation

End-to-end insertion loss using PM and LS (Hands-On Training)

- ✓ Calibration
- ✓ Method A
- ✓ Method B
- ✓ Method C

Fiber Optic Testing, OTDR & Inspection

Course Outline

✓ Day 03

OTDR Professional Testing (Hands-On Training)

- ✓ What is the OTDR and how does it work?
- ✓ Auto test
- ✓ Real-time/live test
- ✓ Expert test
- ✓ Range, Pulse width, and averaging
- ✓ Traces events, understanding, and analysis
- ✓ Events table
- ✓ Markers
- ✓ Ghosts
- ✓ OTDR resolution
- ✓ OTDR gain

Bare fiber testing (un-terminated fiber) (Hands-On Training)

- ✓ Align by fusion splicer
- ✓ Bare fiber adapter

Optical Network Monitoring System

- ✓ Remote testing technology

- ✓ Self testing
- ✓ Fault Notifications

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Course Outline

✓ Day 04

Guideline of Testing & Troubleshooting

- ✓ What can go wrong?
- ✓ Test & Fault Allocation Steps
- ✓ High Non-Reflective Loss: It's a Bend or a Bad Splice?

Project testing documentation and procedures

- ✓ Cable Reels Visual Inspection Sheet
- ✓ Cable Reel Attenuation Test Sheet
- ✓ After Installation Attenuation Test Sheet
- ✓ Bidirectional Splice Loss Test Sheet
- ✓ End-to-End Loss Test (Handover sheet)

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Course Outline

✓ Day 05

Advanced test Applications

- ✓ CD and PMD testing for a very high bit rate DWDM system up to 100 Gbps
- ✓ FTTH network testing
- ✓ Intelligent Optical Link Mapping

Review and Quiz

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 23, 2027	May 27, 2027	5 days	4250.00 \$	KSA , Riyadh
Sept. 27, 2027	Oct. 1, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Nov. 9, 2026	Nov. 13, 2026	5 days	5950.00 \$	USA , Los Angeles
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai

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