



*Training Course:
Advanced Fiber Optic Cables Installation &
Maintenance*

2 - 6 February 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Advanced Fiber Optic Cables Installation & Maintenance

Training Course code: MI235707 From: 2 - 6 February 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3875 € Euro

Introduction

The rapid growth of telecommunications and high-speed data transmission has increased the demand for advanced fiber optic technologies. This program, designed by Global Horizon Training Center, focuses on the critical skills and knowledge needed for the installation, maintenance, and optimization of fiber optic cable systems. Participants will explore advanced techniques and industry best practices to ensure efficiency, reliability, and safety in fiber optic operations.

Objectives

By the end of the course, participants will be able to:

- Understand the fundamental and advanced principles of fiber optic technology.
- Execute proper installation and termination procedures for various fiber optic cables.
- Diagnose and resolve faults in fiber optic networks using specialized tools.
- Apply international standards and guidelines in fiber optic maintenance and testing.
- Enhance system performance by implementing advanced optimization techniques.

Course Methodology

- Interactive Presentations: In-depth explanations supported by visual aids and technical demonstrations.
- Hands-On Workshops: Practical exercises on installation, splicing, and testing of fiber optic cables.
- Group Activities: Collaborative problem-solving scenarios to reinforce learning.
- Case Studies: Real-world examples to connect theory with practical applications.
- Assessments: Daily quizzes and practical evaluations to measure understanding and skill development.

Organizational Impact

- Enhanced reliability and efficiency of fiber optic networks.
- Reduced downtime and maintenance costs through skilled troubleshooting.
- Improved adherence to safety and quality standards.

- Empowered workforce with advanced technical expertise.
- Strengthened organizational reputation through improved service delivery.

Target Audience

- Fiber optic technicians and engineers.
- Telecommunications and network professionals.
- Maintenance and installation supervisors.
- IT infrastructure specialists.
- Individuals seeking advanced knowledge in fiber optic systems.

Outlines

Day 1: Fundamentals of Fiber Optics

- Overview of fiber optic technology.
- Types of fiber optic cables and their applications.
- Transmission properties: attenuation, dispersion, and bandwidth.
- Tools and equipment for fiber optic installation and testing.

Day 2: Installation Techniques

- Planning and preparation for fiber optic installations.
- Cable routing and management.
- Splicing techniques: fusion and mechanical splicing.
- Safety considerations and industry standards.

Day 3: Testing and Troubleshooting

- Testing tools and procedures OTDR, light source, and power meters.
- Identifying and resolving common faults.
- Fiber optic inspection and cleaning.
- Documentation and reporting of test results.

Day 4: Advanced Maintenance Practices

- Preventive maintenance strategies.
- Restoring damaged or degraded fiber optic links.
- Integration with legacy systems and new technologies.
- Quality assurance and compliance with international standards.

Day 5: System Optimization and Future Trends

- Advanced optimization techniques for high-speed networks.
- Emerging technologies in fiber optics.
- Designing networks for scalability and sustainability.
- Course review and final assessment.

Registration form on the Training Course: Advanced Fiber Optic Cables Installation & Maintenance

Training Course code: MI235707 **From:** 2 - 6 February 2025 **Venue:** Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel **Training Course Fees:** 3875 € Euro

Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng):
 Position:
 Telephone / Mobile:
 Personal E-Mail:
 Official E-Mail:

Company Information

Company Name:
 Address:
 City / Country:

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):
 Position:
 Telephone / Mobile:
 Personal E-Mail:
 Official E-Mail:

Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

Easy Ways To Register

Telephone:
+201095004484 to
provisionally reserve your
place.

Fax your completed
registration
form to: +20233379764

E-mail to us :
info@gh4t.com
or training@gh4t.com

Complete & return the
booking form with cheque
to: Global Horizon
3 Oudai street, Aldouki,
Giza, Giza Governorate,
Egypt.