



*Training Course:
Network Cable Installer Fiber Optic Cabling*

*18 - 22 January 2027
Barcelona (Spain)*

Training Course: Network Cable Installer Fiber Optic Cabling

Training Course code: MI234739 From: 18 - 22 January 2027 Venue: Barcelona (Spain) - Training Course Fees: 6300 € Euro

Introduction

The **Network Cable Installer Fiber Optic Cabling** program provides a balanced mix of technical knowledge and hands-on practice for copper and fiber optic network installations. Participants gain the skills required to complete network infrastructure projects to the highest standards while adhering to current national and international regulations and industry best practices. The program gives access to the latest industry standards, ensuring participants become competent and confident network installers.

Course Objectives

By the end of the program, participants will:

- Acquire expert-level knowledge to confidently install, test, and certify copper and fiber optic cable installations.
- Understand and apply national and international industry standards in network cabling.
- Execute installations efficiently, safely, and in compliance with best practices.

Target Audience

- Aspiring network cable installers
- IT infrastructure technicians
- Electrical and telecommunications engineers
- Professionals involved in LAN/WAN or OSP network projects

Course Outlines

Day 1: Safety & Network Fundamentals

- General and fiber safety
- LED, VCSEL, and laser safety
- Fibre preparation hazards and disposal
- Hazardous substances handling
- Outside plant OSP safety: pits, gas detection
- Network overview, topologies, hardware, and benefits

Day 2: Theory of Light & Cable Infrastructure

- Optical windows, electromagnetic spectrum, transmission
- Cable types and construction
- Installation practices, patchcords, enclosures, and ODF
- Slack fiber management and protection

Day 3: Standards & Connectors

- Standards bodies: ISO, CENELEC, TIA/EIA
- Cable classifications and application distances
- Connector types, functionality, and density
- Fibre backbone in LAN, media selection

Day 4: Fiber Splicing & Termination

- Fusion splicer setup and operation
- Singlemode and multimode programs
- Splicing in patch panels
- Pigtail manufacture, cold cure, mechanical, and fusion splicing
- End-face inspection techniques

Day 5: Testing & Certification

- Fluke CCTT Fibre
- Tier 1 certification: CertiFiber® Pro
- Tier 2 certification: OptiFiber® Pro
- Encircled Flux EF standards
- OTDR event types and link testing with OptiFiber® Pro

Registration form on the Training Course: Network Cable Installer Fiber Optic Cabling

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

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Full Name (Mr / Ms / Dr / Eng):
Position:
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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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