



*Training Course:
Network Cable Installer Copper Cabling*

*15 - 19 February 2027
Madrid (Spain)*

Training Course: Network Cable Installer Copper Cabling

Training Course code: MI234738 From: 15 - 19 February 2027 Venue: Madrid (Spain) - Training Course Fees: 6300 € Euro

Introduction

The **Network Cable Installer Copper Cabling** program provides a blend of technical knowledge and practical exercises for copper network cabling installations. Participants will gain the skills required to execute network infrastructure projects to the highest standards while complying with national and international industry regulations. The program equips learners with the latest industry standards and best practices in copper cabling installation, testing, and certification.

Course Objectives

Upon completion, participants will be able to:

- Confidently install, test, and certify copper network cabling.
- Apply national and international cabling standards in practical installations.
- Plan tasks and materials efficiently to complete projects on time and within budget.
- Improve their professional competency in structured cabling installations.

Target Audience

- Aspiring network cable installers
- IT infrastructure and network technicians
- Telecommunications engineers
- Professionals involved in LAN/WAN or structured cabling projects

Outlines:

Day 1: Introduction & Structured Cabling Fundamentals

Theory:

- Introduction to structured cabling and its importance
- Network overview: what is a network, characteristics, resource sharing
- Cable media types, categories, and topologies
- LAN hardware: PCs, switches, routers
- National and international standards ISO, CENELEC, TIA/EIA

Practical:

- Interpreting cabling drawings
- Risk evaluation for installation
- Preparing tools and equipment

Day 2: Installation Principles & Signal Theory

Theory:

- Installing structured cabling: containment routes and work environment
- Electrical principles, DC current, analog vs. digital signals
- Health & safety: legislation, electrical safety, working at heights/confined spaces
- Fire safety: fire stopping, CPR compliance

Practical:

- Cable installation and proper handling
- Patch cord manufacturing
- Cable routing in containment systems

Day 3: Termination & Testing Basics

Theory:

- Copper cable termination types: UTP/STP
- Patch panels, outlets, and wall jacks
- Documentation, labeling, and record keeping
- Testing fundamentals: continuity, certification, and acceptance testing

Practical:

- Cable termination on patch panels and outlets
- Using test equipment to verify connectivity
- Creating and documenting cabling records

Day 4: Advanced Testing & Certification

Theory:

- Level IV testing requirements
- Fluke CCTT Copper Certification DSX
- Interpreting test results and troubleshooting
- Overview of HDTDX and HDTDR testing

Practical:

- Setting up DSX and performing tests
- Troubleshooting faults in installed cables
- Conducting Level IV certification tests and documenting results

Day 5: Integration, Troubleshooting & Project Simulation

Theory:

- Review of all standards and installation practices
- Quality control and ensuring compliance with client/project requirements
- Overview of common faults and corrective measures

Practical:

- Simulated project: install, terminate, test, and certify a copper network segment
- Conduct end-to-end testing and validation
- Troubleshoot, adjust, and finalize project documentation
- Final assessment and review

Registration form on the Training Course: Network Cable Installer Copper Cabling

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

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