CABLING & FIBRE OPTICS · STRUCTURED CABLING

Structured Cabling Fundamentals

أساسيات أنظمة الكابلات المهيكلة

3 days | Foundation | In person · Live online | Arabic & English

Learn how a professional cabling system is planned, installed and documented. Over three days you will work through the standards, copper media and connectors, cabling subsystems, pathways and telecom rooms, then terminate and test your own links in hands-on lab sessions.

WHO IT'S FOR

Network and electrical technicians, site engineers, installers and IT staff who are new to structured cabling or want to work to recognised standards.

BEFORE YOU START

No formal prerequisites: bring curiosity and a willingness to practise.

WHAT YOU'LL LEARN

- Explain the structure of a standards-based cabling system and its subsystems.
- Select the right copper cable category, shielding and connectors for an application.
- Plan pathways, telecom rooms and cable routes for a small building.
- Terminate RJ45 jacks, plugs and patch panels to T568A and T568B.
- Test and document a permanent link and a channel.

Training a team?
We run this course privately for organizations, on your dates, at your site or ours, and adapt the examples to your network and equipment.

COURSE OUTLINE

6 modules, 3 days

MODULE 01

Cabling systems and standards

- Why structured cabling
- TIA-568 and ISO/IEC 11801 at a glance
- Cabling subsystems and topology
- Permanent link and channel

MODULE 02

Copper media and connectors

- Twisted-pair categories and performance
- Shielded and unshielded cable
- Jacks, plugs and patch panels
- T568A and T568B wiring

MODULE 03

Pathways, spaces and design

- Telecom rooms and equipment rooms
- Horizontal and backbone cabling
- Containment, trays and conduits
- Cable lengths and bend radius

MODULE 04

Installation and termination

- Pulling and routing cable
- Punch-down and jack termination
- Dressing and managing cables
- Common installation faults

MODULE 05

Testing, labelling and documentation

- Wiremap, length and loss tests
- Reading a test report
- Labelling schemes
- As-built documentation

MODULE 06

Hands-on lab

- Build a permanent link
- Terminate a patch panel
- Test, troubleshoot and document

ALSO IN STRUCTURED CABLING

Data Centre Cabling Design

Enrol or ask a question

In person in Damascus · Live online · Private training for teams. Tell us your goals and we will send the dates, the fees and the right level for you.

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