TELECOMMUNICATIONS & 5G · TELECOM INFRASTRUCTURE & OPERATIONS

Telecommunications Fundamentals

أساسيات الاتصالات

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

See how a telecom network works from end to end. You will follow a call and a data session through access, transmission and core networks, learn the main technologies in fixed and mobile networks, and understand how operators plan, run and maintain them.

WHO IT'S FOR

New engineers and technicians in telecom, staff at operators and contractors, and IT professionals moving into telecom.

BEFORE YOU START

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

WHAT YOU'LL LEARN

- Describe the structure of fixed and mobile telecom networks.
- Explain access, transmission and core network functions.
- Compare copper, fibre, microwave and radio technologies.
- Follow voice and data through the network.
- Understand how networks are operated and maintained.

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

5 modules, 3 days

MODULE 01

Telecom networks today

- Fixed and mobile networks
- Operators and services
- Network layers

MODULE 02

Access networks

- Copper and fibre access
- Radio access
- Customer equipment

MODULE 03

Transmission

- Microwave links
- Optical transport
- IP and MPLS backhaul

MODULE 04

Core networks

- Switching and routing
- Voice and data services
- Interconnection

MODULE 05

Operations

- Network operations centres
- Performance and faults
- Maintenance

ALSO IN TELECOM INFRASTRUCTURE & OPERATIONS

AI Prompting for Telecom Engineers, **Career Skills for Telecom Engineers: CV, Interviews and LinkedIn**, **Mobile Network Field Engineering**, **Network Operations Centre (NOC) Operations**, **Telecommunications for Non-Engineers**

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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