TELECOMMUNICATIONS & 5G · 4G & 5G NETWORKS

End-to-End Mobile Networks: from the Handset to the Core

الشبكات الخلوية من طرف إلى طرف: من الهاتف إلى الشبكة الأساسية

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

Connect the pieces of a mobile network into one picture. You will follow traffic from the handset through the radio network, transmission and backhaul into the core and out to the internet, and learn how the parts work together when things go right and when they fail.

WHO IT'S FOR

Engineers who know one part of the network (radio, transmission or core) and want the full end-to-end view.

BEFORE YOU START

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

WHAT YOU'LL LEARN

- Describe each segment of a mobile network and its role.
- Follow a data session end to end.
- Explain how radio, transmission and core interact.
- Trace typical faults across network segments.

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

The big picture

- Network segments and interfaces
- Generations side by side

MODULE 02

Radio access

- Base stations and controllers
- Radio resource basics

MODULE 03

Transmission and backhaul

- Microwave, fibre and IP backhaul
- Synchronisation

MODULE 04

Core and services

- Core functions
- Internet and service platforms

MODULE 05

End-to-end troubleshooting

- Following a fault across segments
- Case exercises

ALSO IN 4G & 5G NETWORKS

4G LTE Fundamentals, **5G Fundamentals**, **Mobile Core Networks: 2G to 4G and IMS**, **5G Core & Network Architecture**, **Wireless Engineering: 2G to 5G, End to End**

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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