TELECOMMUNICATIONS & 5G · 4G & 5G NETWORKS

Wireless Engineering: 2G to 5G, End to End

هندسة الشبكات اللاسلكية: من 2G إلى 5G من طرف إلى طرف

10 days | Advanced | In person · Live online | Arabic & English

A complete program for mobile network engineers. Over ten days you will move from radio basics and antennas through every mobile generation, base-station equipment and site surveys, planning with professional tools and drive-test analysis, to 5G architecture and use cases.

WHO IT'S FOR

Graduates and engineers who want a complete, job-ready foundation in mobile network engineering.

BEFORE YOU START

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

WHAT YOU'LL LEARN

- Explain radio fundamentals, antennas and link budgets.
- Describe 2G, 3G, 4G and 5G architectures.
- Carry out site surveys and understand site equipment.
- Use planning tools and analyse drive-test data.
- Explain 5G use cases and deployment.

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, 10 days

MODULE 01

Radio fundamentals

- Frequency, power and decibels
- Antennas and propagation

MODULE 02

Mobile generations

- 2G and 3G
- 4G LTE
- 5G NR

MODULE 03

Sites and equipment

- Base stations
- Site surveys

MODULE 04

Planning and optimisation

- Planning tools
- Drive tests and KPIs

MODULE 05

5G in practice

- Architecture and deployment
- Use cases

ALSO IN 4G & 5G NETWORKS

4G LTE Fundamentals, **5G Fundamentals**, **End-to-End Mobile Networks: from the Handset to the Core**, **Mobile Core Networks: 2G to 4G and IMS**, **5G Core & Network Architecture**

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.

+963 991 099 555

info@alalamia-sy.com

alalamia-sy.com