TELECOMMUNICATIONS & 5G · RF & RADIO PLANNING

Radio Network Planning & Optimisation

تخطيط شبكات الراديو وتحسينها

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

Plan and tune mobile radio networks for coverage, capacity and quality. You will build link budgets, plan sites and frequencies, use drive-test and network data to find problems, and work through optimisation cases from real-world 4G and 5G networks.

WHO IT'S FOR

Radio planning and optimisation engineers, and RF engineers moving into planning roles.

BEFORE YOU START

RF Fundamentals for Telecom and 4G LTE Fundamentals, or equivalent experience

WHAT YOU'LL LEARN

- Prepare coverage and capacity link budgets.
- Plan sites, frequencies and neighbours.
- Analyse drive-test and network performance data.
- Diagnose coverage, interference and handover problems.
- Plan and verify optimisation actions.

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, 5 days

MODULE 01

The planning process

- Requirements and inputs
- Nominal and detailed planning

MODULE 02

Link budgets and coverage

- Uplink and downlink budgets
- Propagation models
- Coverage prediction

MODULE 03

Capacity and frequency planning

- Traffic and capacity
- Frequency and PCI planning
- Neighbour planning

MODULE 04

Measurements and data

- Drive tests
- Network counters and KPIs

MODULE 05

Optimisation

- Coverage and interference
- Handover and mobility
- Case studies

ALSO IN RF & RADIO PLANNING

RF Fundamentals for Telecom, **Drive Testing & Network Optimisation**, **In-Building Coverage Solutions (IBS & DAS)**, **Modulation & Coding Techniques**, **Radio Network Planning with Atoll**

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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