TELECOMMUNICATIONS & 5G · TRANSMISSION

Satellite Communications

الاتصالات عبر الأقمار الصناعية

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

Learn how satellite links deliver connectivity where cables cannot. You will cover orbits from GEO to LEO, frequency bands, earth stations and VSAT terminals, satellite link budgets, and the services satellites provide today, from broadcasting to broadband and backhaul.

WHO IT'S FOR

Telecom engineers, technicians and planners working with satellite links or remote connectivity.

BEFORE YOU START

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

WHAT YOU'LL LEARN

- Compare GEO, MEO and LEO systems.
- Explain frequency bands and their trade-offs.
- Describe earth stations and VSAT networks.
- Calculate a satellite link budget.
- Match satellite services to use cases.

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

Satellite basics

- Orbits and coverage
- Frequency bands

MODULE 02

The space and ground segments

- Satellites and transponders
- Earth stations and VSAT

MODULE 03

Link design

- Link budgets
- Rain fade and margins

MODULE 04

Services

- Broadcasting
- Broadband and backhaul
- LEO constellations

MODULE 05

Installation and operation

- Antenna pointing
- Monitoring and troubleshooting

ALSO IN TRANSMISSION

GNSS & GPS Fundamentals, **Microwave Link Planning with Pathloss**, **Microwave Transmission Links**, **Optical Transport Networks: SDH, OTN & DWDM**, **Submarine Cable Systems**

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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