TELECOMMUNICATIONS & 5G · TRANSMISSION

GNSS & GPS Fundamentals

أساسيات أنظمة الملاحة بالأقمار الصناعية وGPS

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

Understand how satellite positioning and timing work and why networks depend on them. You will learn the GNSS constellations, how a receiver calculates position and time, sources of error, and how GPS timing synchronises telecom networks.

WHO IT'S FOR

Telecom and field engineers, surveyors and anyone working with positioning or network timing.

BEFORE YOU START

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

WHAT YOU'LL LEARN

- Describe GNSS constellations and signals.
- Explain how position and time are calculated.
- Identify sources of error and how to reduce them.
- Explain GNSS timing in telecom networks.

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

4 modules, 2 days

MODULE 01

GNSS systems

- GPS and other constellations
- Signals and frequencies

MODULE 02

Positioning

- Trilateration
- Accuracy and errors

MODULE 03

Timing and synchronisation

- GNSS timing
- Synchronising mobile networks

MODULE 04

Field practice

- Receivers and antennas
- Installation tips

ALSO IN TRANSMISSION

Microwave Link Planning with Pathloss, **Microwave Transmission Links**, **Satellite Communications**, **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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