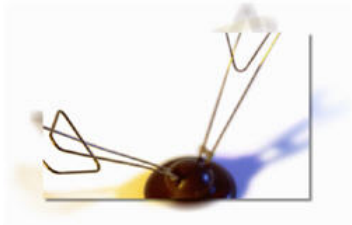


# Radio & Transmission



## Antennas & Mobile Communication insight



In modern radiosolutions the requirements of the radio link is essential for the communication chain. A thorough understanding of radio and transmission fundamentals is very important in phases of development and measurements.

### Antennas & Mobile Communication insight

#### OBJECTIVES

- Understanding the..
- electromagnetic principles
  - radiation description
  - principles of ether transmission
  - antenna terms
  - elementary radio wave propagation
  - cellular radio coverage
  - cell types
  - planning principles for capacity and coverage

#### TARGET GROUP

The Platform day is for those who have no previous knowledge in Mobile Communication and radio transmission.

#### PRECONDITION

The course is for people with no or little experience from the Mobile Communication field and Antennas.

### Platform - 1 day

#### Content

##### ✕ Radiation fundamentals

- electromagnetic radiation
- radiation terms

##### ✕ Radio transmission principles

- modulation principles
- digital modulation

##### ✕ Radio wave propagation

- frequency/wavelength and propagation characteristics
- attenuation
- reflection
- interference

##### ✕ Cellular radio

- cellular principles
  - frequency reuse
  - elementary frequency planning
- ##### ✕ Cell planning fundamentals
- capacity
  - coverage
  - reuse distance

### Antenna Products

**AMC-1: Antennas for Mobile Communication insight (1 day)**

**AMC-2: Antennas for Mobile Communication (1 day)**

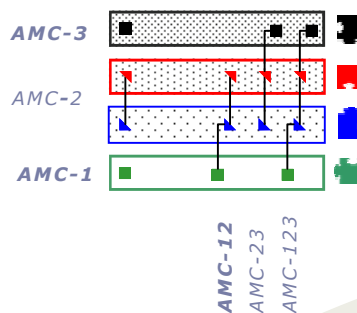
**AMC-3: Advanced Antennas for Mobile Communication (1 day)**

#### Product Combinations

**AMC-12: AMC-1+2 (2 days)**

**AMC-23: AMC-2+3 (2 days)**

**AMC-123: AMC-1+2+3 (3 days)**



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