

The GSM System is the world biggest mobile system both regarding coverage and subscribers. In this section of courses you will find something for the GSM novice as well for the technician.

OBJECTIVES

Understanding GSM..

- architecture
- procedures
- services
- mobile equipments and SIM
- Cell planning and radio propagation fundamentals

TARGET GROUP

People working with GSM in..

- service
- management
- development

PRECONDITION

- · The GSM course block starts with a preparation day for non-technicians
- · The standard level requires general knowledge in the telecommunication area

GSM Insight



Platform - 1 day

Content

x GSM history and evolution

- ·GSM related to other mobile and telecommunication systems
- ·GSM standardisation organisations
- x Mobile system requirements an solution principles
- **¤ GSM**
- ·Services
- ·Architecture
- ·Radio Access principles
- **x** Handheld devices
- **x** Future paths

Aimed for

People with no or little experience from the GSM field. This day can be detached from the standard days

GSM



Standard - 2 days

Content day1

- **¤ GSM development**
- **x** Services and their system requirements
- **x Core Network** (Switching System)
- x Access Network (Base Station System)
- **x** System nodes
- ·functionalities
- ·interfaces
- **x** Mobile Equipment and the SIMcard
- x Speech Coding

Aimed for

People with some previous experience from the telecommunication field

Related Courses: GPRS/EDGE, UMTS

Content day2

- x Identities and authentication
- x Traffic cases (simplified)
- ·signaling procedures
- -speech
- -data
- -SMS
- **x** Security aspects
- **x** Mobility Management
- · Location updates different types
- · Handover different types
- **¤ Air Interface**
- · Frequency bands and modulation
- · Logical Channels; traffic and signaling

x Radio Propagation

- · shadowing, multipath fading
- · interfering carriers, C/I
- · problems and GSM solutions

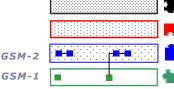
x Cell planning primer

- · CP principles in cellular networks
- · Coverage and Capacity
- · Frequency reuse
- · Cell types

Products

GSM-1:GSM Insight (1 day) GSM-2:GSM (2 days)

Product Combinations GSM-12:GSM-1+2 (3 days)



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