

GSM Parameters

This course provides a comprehensive overview of the GSM parameters standardised by ETSI as well as their functions within the GSM network.

The presented content is enlivened by many examples. At the end of the course the participants will be able to understand the correlation between the multiple parameters in order to e.g. optimise the call handling within the base station subsystem.

Target Group / Requirements

This course is addressed to personnel of mobile-network providers in the area of GSM system specialists, field implementation and operation and maintenance centres. Sound GSM knowledge is a prerequisite of this course.

Course Content

Introduction

- GSM reference model
- Interfaces in the GSM Network
- GSM protocols

Location management

- Cell selection
- Cell re-selection
- Location update

Random access, paging & call control

- Random access
- Paging
- Call control

Power control & radio link failure

- Introduction
- Measurements of BTS and MS
- Threshold comparison process
- Power control examples
- Power control timers
- Radio link failure procedure
- Radio link failure warning procedure

Handover Control

- Introduction & overview of the different handover types
- Handover basis
- Handover process:
 - Measurements and pre-processing
 - Handover decision
 - Target cell selection
 - Channel selection

Course Duration:

3 days

Course Number:

NW1216

Requirements:

Sound GSM knowledge

- Handover signaling and timer

Security management

- Subscriber & ME identification
- Authentication
- Ciphering
- TMSI allocation & IMEI check

Certification

Certificates are given to all participants at the end of the course about the successful completion.

Course Registration:

Please contact us via

- phone: +49 89 1894354-0
- email: training@tfk.de or
- via our website www.tfk.de/training

You will receive a confirmation of your registration. We can also advise you concerning the best combination of course contents.

For clients with special requirements the optimal training concept can be customized. Modules from our training portfolio can be combined to meet your company-specific needs.