

Keysight Technologies

GSM Basics

Course Overview

Course Number: H7216X-100

Learn the basics of GSM

Course Overview

The course gives an overview of the development of GSM up to the present day, the network infrastructure and the physical parameters of the system.

What You will Learn

- GSM Network, Cell & Sectors
- Hand-offs
- Control Channels
- Traffic Channels
- Vocoders & Error Correction
- Bursted Transmissions
- Transmitter Measurement
- Receiver Measurement

Specifications

Course type

Application Training

Audience

Engineers and technicians who work in GSM.

Prerequisites

Students should have an understanding of electronic basics and of RF measurements.

Course length

1 day

Course format

This course is presented classroom style. All presentation materials are contained in the student workbook, which the student may keep for future reference.

Delivery method

Scheduled at Keysight Technologies, Inc. locations, or

Dedicated at a customer site.

To save you time and travel, many Keysight courses can be delivered at your site. Keysight can provide required equipment, or you can save money by furnishing your own.

Detailed Course Agenda

GSM fundamentals

This instructor led lesson looks at three areas of GSM, Network, Air Interface and Signal Path.

The GSM Networks looks at:

- Network Components
- Cells and Sectors
- Frequency Planning
- Hand-off Techniques
- Power Control

The Air Interface explores:

- GSM Implementation
- Power versus Time
- Frames and Data Formatting
- Paging and Call Origination

The Signal Path from the microphone to the antenna is explained:

- Vocoder
- Channel Coder
- Interleaving
- Modulation
- Transmission

For the latest information on class schedules and locations visit our website: www.keysight.com/find/education



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