



SIM, STK & OTA Basics

Objectives:

At the end of this course you will:

- ✦ Have an overview of the main GSM SIM card standards.
- ✦ Understand SIM card functionality.
- ✦ Have an introduction on how “SIM Toolkit” applications work.
- ✦ Be able to understand the “Over-The-Air” (OTA) process

Key Topics:

- ✦ SIM
- ✦ ISO 7816
- ✦ GSM 11.11/ 3GPP 51.011
- ✦ GSM 11.14
- ✦ GSM 03.48 / 3GPP 23.048
- ✦ SIM APPLICATION TOOLKIT
- ✦ SMS & “OTA”
- ✦ AUTHENTICATION

Who should attend:

- ✦ Project Managers
- ✦ IT Managers
- ✦ System Implementers
- ✦ Development Staff



Creating new services has until now required long development cycles and proprietary implementation. Using Java Card based SIM cards and Gemalto SIM Administration & Simulation Tools, based on the latest GSM standards, you can now work in-house, and transform ideas into applications in a matter of days.

This training course will allow you to rapidly get to know the main features of these products and begin managing your own applications

Each training session consists of:

- ✦ A Complete course manual
- ✦ Practical Exercises

Pre-requisites:

- ✦ This course requires participants to have a basic knowledge of the GSM networks, as well as an electronic or computer background
- ✦ This course is held in English

Duration: 2 Days

Course fee:

Please refer to regional schedules on www.gemalto.com/training or contact us: <http://www.gemalto.com/training/contact.html>

Location:

Gemalto Training Centers
 For on-site training, please contact us.



Course Schedule:

| Day 1 | Practice |
|--|--|
| <p>Trainees registration and training overview</p> <p>Gemalto in GSM Gemalto cards & software Gemalto services</p> <p>Understanding SIM Cards using GXXV3 cards GSM 11.11 standards</p> <ul style="list-style-type: none"> + Card architecture + Card life phases + Memory organisation + Access conditions + Security features + Special features + Command set <p>Understanding SIM Application Toolkit GSM 11.14 Standards</p> <ul style="list-style-type: none"> + SIM Toolkit definition + Use of STK applications | <p>SIM Files browsing PIN management File creation</p> |

| Day 2 | Practice |
|---|---|
| <ul style="list-style-type: none"> + SIM toolkit commands + SIM toolkit protocols <p>Remote management of services Introduction "Enhanced Short Messages" – GSM 23.048 "Enhanced SMS journey" for SIM cards Security features</p> | <p>STK application loading & testing with ADMIN & SIM software</p> <p>Mobile & network acknowledgement OTA testing using SIMu tools: Downloading securely GSM data Over-The-Air</p> |

Related Courses:

| | | |
|--|---|--|
| <p>SIM & OTA Basics Course (T1001I)</p> | <p>JAVA SIM Card Administration Course (T1006A)</p> | <p>JAVA SIM Applet Development Course (T1007D)</p> |
|--|---|--|