

# Java SIM Applet Development

## Objectives:

At the end of this course you will:

- ✦ Be able to design and write your own 'interoperable' STK applet.
- ✦ Be able to test, debug and improve your STK applet
- ✦ Have an overview on how to optimize your source code to gain in time and speed

## Key Topics:

- ✦ CLASS CONVERSION
- ✦ JAR AND CAP FILES
- ✦ 43.019 API
- ✦ HANDLERS

## Who should attend:

- ✦ Development staff

## Each training session consists of:

- ✦ A complete course manual
- ✦ Practical exercises



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 developing and testing your own applications

## Pre-requisites:

- ✦ This course requires participants to have a basic knowledge of the following technologies:
  - ✦ - a basic knowledge of the GSM standards 11.11, 11.14 (SIM Toolkit), 03.48.
  - ✦ - a basic knowledge of object-oriented programming.
  - ✦ - It is strongly recommended that you follow the "Java SIM Card Administration" course before attending this course
- ✦ This course is held in English

**Duration:** 2 Days

## Course fee:

Please refer to regional schedules on [www.gemalto.com/training](http://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
Trainees registration and training overview Reminder on Java card architecture (JCRE, VM..), Description of Java card API Description of 43.019 API Practical Exercises	Add a new STK menu to an applet implementing a proactive command, compile/convert/load/install/test

Day 2	Practice
Overview on Optimisation of code in size and speed Practical Exercises	Add a new service in an applet using the event SMS_PP and other proactive commands. Optimise your applet code. Configure an OTA communication chain to test and debug your applet.

**Related Courses:**

<b>SIM, STK &amp; OTA Basics (T1001I)</b>	<b>Java SIM Card Administration (T1006A)</b>	<b>Java SIM Applet Development (T1007D)</b>
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