



Java Card™ Application Development

Course Reference: F1005D

GemXpresso
RAD III



-[with GemXpresso™ Java Cards & RAD III software]

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roviding flexible multi-application smart card based services which are easily upgraded is now possible with the GemXpresso card and software range of Java Card™ based products. This training course allows developers to easily and rapidly design and test Java Card™ based applications.

Objectives



At the end of this course you will:

- Understand Java Card™ and Open Platform specifications,
- Know the card architecture and the associated security,
- Be able to design, debug and test your own JavaCard applets.

Who should attend:

- Project managers
- Development engineers
- Systems designers

Each training session consists of:

- Binder containing the course
- Practical Exercises

Pre-requisites:

- This course requires participants to have a basic knowledge of the following technologies:
 - Object Oriented Programming
- This course is held in English.

Key Topics

- APPLET
- JAVA CARD™ VIRTUAL MACHINE
- SECURE CHANNEL
- OPEN PLATFORM
- KEY MANAGEMENT

Duration: 3 Days

Course fee:

Please Contact Gemplus



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For further information about registration, course schedule.

Please Contact us via email to: gemenos.training-emea@gemplus.com, by telephone +33 (0) 442 36 52 11 or visit our web site: <http://www.gemplus.com/training>

Course contents and daily schedule

DAY	SUBJECT	PRACTICE
1 st	<p>Welcome and training overview</p> <p>Introduction to Java Card™ based smart cards</p> <ul style="list-style-type: none"> • Java Card™ overview • Benefits of an Open OS card <p>Java Cards</p> <ul style="list-style-type: none"> • Open Platform Specifications • GemXpresso card family • Card production process <p>Applet Development Software</p> <ul style="list-style-type: none"> • GemXpresso RAD software • Applet development process with RAD III 	<p>Load a generic applet into a GemXpresso card</p>
2 nd	<p>Java Card™ 2.1.1 Description</p> <ul style="list-style-type: none"> • Java Card™ architecture: role of the JCRE & VM • Defining a Java Card™ Applet • Java Card™ 2.1.1 API • Java Card™ classes description 	<p>Develop a JC 2.1 basic electronic purse implementing card/reader communication (APDU) and security features</p>
3 rd	<p>OP and VOP implementation in GemXpresso cards</p> <ul style="list-style-type: none"> • OP APDU commands • OP API <p><i>Optional session : Public Key implementation in GemXpresso PK cards</i></p> <ul style="list-style-type: none"> • PK API presentation 	<p>Write an OP applet implementing OP security features and test with your client application</p>

Note: All training courses can be held on-site or at one of the Gemplus training centres. Please contact us for more details.



For further information about registration, course schedule.
Please Contact us via email to: gemenos.training-emea@gemplus.com, by telephone +33 (0) 442 36 52 11
or visit our web site: <http://www.gemplus.com/training>