

Price: R6,900.00 excl. VAT
Duration: 5 days
Code: J2MED

Java 2 Micro Edition Development

Description

This course is aimed at experienced Java developers who want to develop embedded Java applications to run on mobile and wireless devices.

Objectives

Delegates who complete this course will be able to:

- Understand the differences between J2ME and other Java versions.
- Understand the J2ME environments and their limitations.
- Become familiar with the J2ME API.
- Create Midlets (applications for Mobile Information Devices).
- Deploy and test Midlets.
- Create a graphical user interface (GUI).
- Test J2ME code using the Wireless toolkit.
- Understand issues affecting speed and performance.

Intended Audience

This course is aimed at companies and individuals who are already doing Java development and are migrating to, or interested in, the development and deployment of Java applications for mobile or embedded platforms.

Prerequisites

Our Java Programming course or equivalent experience in Java programming is essential.

Course Contents

J2ME platform • Profile and configuration relationships. • Connected Limited Device Configuration (CLDC) and the KVM. • Connected Device Configuration (CDC) and the CVM. • Mobile Information Device Profile (MIDP) for mobile devices. • Personal Digital Assistant Profile (PDAP). • Foundation Profile. • Personal Basis Profile (PBP) with lightweight (AWT-derived) GUIs. • Personal Profile for consumer products and embedded devices. • Information Module Profile (IMP) for "headless" embedded devices.

Development systems and emulators • KVM and CVM. • PC-based cell phone emulators. • Open source and free emulators and development systems.

APIs • LCD-based GUI API. • Gaming API. • Multimedia devices and MMS. • IO with streams and sockets.

MIDP 2.0 • Creating MIDP applications. • Developing GUIs with MIDP. • Midlet suites and deployment.

Connectivity • SMS. • Bluetooth and JSR82. • Infrared Data Adapter (IrDA). • Networking. • Wireless Messaging API (WMA). • Push Registry.

Miscellaneous • J2ME best practices. • J2ME Web Services and JSR 172. • Persisting data on portable devices.