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[www.tonex.com](http://www.tonex.com)

## TONEX Global Training Courses & Seminars

"Customization is Our Secret"

- Telecom
- IT Training
- Storage Networking
- Engineering
- Certification
- Workshop & Seminars
- Wireless Communication
- Business Management
- IP Networking
- Enterprise Architecture
- RF Engineering
- Boot Camps

Quality Training **Delivered**

## Popular Certification Programs

### 9022: TOGAF 8 Certification Training Boot Camp

Duration: 4 Day(s)

TOGAF - The Open Group Architectural Framework. The key to TOGAF is a reliable, proven method - the TOGAF Architecture Development Method (ADM) - for developing an IT architecture that meets the needs of your business.

It is a flexible set of methods, processes, reference models, standards, techniques and tools for developing a broad range of different IT architectures. TOGAF enables IT organizations to design, evaluate, and build the right architecture for their enterprise, and reduces the costs of planning, designing, and implementing architectures based on open systems solutions.

TOGAF has evolved through two recent enhancements into TOGAF 8.1.1 and the recently released TOGAF 9.0.

The Open Group has pledged to support both TOGAF 8.1.1 and TOGAF 9.0 and TONEX will continue to provide quality training for both of these latest revisions.

- **TOGAF 8.1 COURSE:** Results in TOGAF 8.1 Certified TOGAF Practitioner
- **TOGAF 8-9 COURSE:** Results in TOGAF 8.1 Certification and TOGAF 9.0 new feature introduction and review.
- **TOGAF 9.0 LEVEL 1:** Two day course preparing candidates for the Level 1 Certification Exam.
- **TOGAF 9.0 LEVEL 2:** Three day Course preparing candidates for the Level 2 Certification Exam.
- **TOGAF 8.0 TO 9.0 UPGRADE:** Two day Course preparing candidates for the Upgrade Certification Exam for those who have currently completed the TOGAF 8.1 Certification.

This TOGAF 8 training boot camp lead to you TOGAF 8.1.1 certification.

#### OBJECTIVES

Our TOGAF certification boot camp will enable Enterprise and IT architects, designers and managers to achieve TOGAF CERTIFICATION (the certification fee is included in the price.(A \$300.00 value)

After completing this program, attendees will be able to:

- Why is TOGAF important?
- A high-level introduction to some of the key concepts behind enterprise architecture and TOGAF approach.
- TOGAF Architecture Principles, Goals, Patterns, Views & Viewpoints
- TOGAF Information Sets
- TOGAF and Business, data , application and technology architectures.
- The TOGAF Standards Information Base (SIB)
- The TOGAF Architecture Development Method (ADM)
- Technical Reference Model (TRM)
- The Enterprise Continuum with supportive Architectures
- Architecture Governance
- XML-based Architecture
- Description Markup Language (ADML)
- Building Blocks Information Base (BBIB)
- Technical Architecture Builder and Browser (TABB)
- Architecture Maturity Assessments
- Architecture Skills Framework Tools, techniques and methods for architecture development
- Case studies & Activities Labs

### 9023: TOGAF 9.0 Practitioner Course Level 1 & 2

Cost: Call for Details | Duration: 4 Day(s)

TOGAF Version 9 Enterprise Edition ("TOGAF 9" for short) is a detailed method and set of supporting resources for developing an Enterprise Architecture. Developed and endorsed by the membership of The Open Group's Architecture Forum, TOGAF 9 represents an industry consensus framework and method for Enterprise Architecture that is available for use internally by any organization around the world - members and non-members of The Open Group alike - subject to license conditions - see Downloading TOGAF 9. As a comprehensive, open method for Enterprise Architecture, TOGAF 9 complements, and can be used in conjunction with, other frameworks that are more focused on specific aspects of architecture or for vertical sectors such as Government, Defense, and Finance.

TOGAF has evolved through two recent enhancements into TOGAF 8.1.1 and the recently released TOGAF 9.0.

TONEX is a TOGAF 9 Fully Accredited Training Provider by the Open Group.

#### WHAT'S NEW?

- Modular Structure
- Content Framework
- Extended Guidance on using TOGAF
- Explicit Consideration of Architectural Styles
- Further detail added to the Architecture Development Method (ADM)

The Open Group has pledged to support both TOGAF 8.1.1 and TOGAF 9.0 and TONEX will continue to provide quality training for both of these latest revisions.

- TOGAF 8.1.1: Four day course leads to TOGAF 8 certification
- TOGAF 9.0 Level 1: Two day course preparing candidates for the Level 1 Certification Exam.
- TOGAF 9.0 Level 2: Three day Course preparing candidates for the Level 2 Certification Exam.
- TOGAF 8 to 9.0 Upgrade: Two day Course preparing candidates for the Upgrade Certification Exam for those who have currently completed the TOGAF 8.1 Certification.

#### OBJECTIVES

##### OBJECTIVES OF TOGAF 9

- To instruct students in the basic concepts of enterprise architecture and TOGAF 9.
- To familiarize students with the features of TOGAF and its methodology.
- To enable students to take best advantage of how to use TOGAF in their work.
- To gain an understanding of the necessary body of knowledge to achieve certification by examination for
- TOGAF 9 at Level 1 (TOGAF 9 Foundation) or Level 2 (TOGAF 9 Certified).

## 9024: TOGAF 8 to 9 Bridge

Duration:2 Day(s)

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## 9025: TOGAF 9 Foundation Level 1

Duration:2 Day(s)

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As a comprehensive, open method for Enterprise Architecture, TOGAF 9 complements, and can be used in conjunction with, other frameworks that are more focused on specific aspects of architecture or for vertical sectors such as Government, Defense, and Finance.

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- TOGAF 8 to 9.0 Upgrade: Two day Course preparing candidates for the Upgrade Certification Exam for those who have currently completed the TOGAF 8.1 Certification.

### OBJECTIVES

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- To instruct students in the basic concepts of enterprise architecture and TOGAF 9.
- To familiarize students with the features of TOGAF and its methodology.
- To enable students to take best advantage of how to use TOGAF in their work.
- To gain an understanding of the necessary body of knowledge to achieve certification by examination for
- TOGAF 9 at Level 1 (TOGAF 9 Foundation).

## 90010: Mobile Applications Development Training - Coding & Design for Mobile Applications

Cost: Call for Details | Duration: 5 Day(s)

Mobile Applications Development Training provides an opportunity to study various mobile applications that run on the mobile platforms and the Internet, acquire relevant skills and develop an understanding of the issues surrounding the Mobile Platforms and SDKs including iOS/iPhone/iPad, Android, Blackberry/Tablet OS, HP webOS Tablet and Windows Mobile 7.

This is the definitive training course boot camp to building successful mobile applications for all the development platforms. It covers every facet of development and deployment, including business issues, architectural design, integration with existing web and legacy applications, security, porting, and the management of mobile application development projects. Topics include:

- Various Application Frameworks
- Core OS
- Networking
- Security
- Graphics and Media
- Internet & Web
- Other Development Tools

During the class we will be building and working real-world applications from scratch. This is great because you will have the opportunity to create something that has practical use, and exercise important concepts such as user interface construction, application settings and data persistence, network connections, integration with existing applications and with the hardware on the device. You will also follow best practices in the areas .

These concepts and practices are universal and are applicable to any platform. They are the foundation for any mobile application . You will see iOS 4/iPhone/iPad, Android, Blackberry code, Tablet OS, and HP webOS working together. The Android code being a prototype for a commercial application, and the iPhone code being the actual source code of a commercial application created under the instructor direction. The bootcamp is composed of the following training programs:

- iPhone and iPad training
- Android Training
- Blackberry Training
- Blackberry Tablet OS training
- HP webos training
- Windows Phone 7 training

### OBJECTIVES

After attending this course, attendees will be able to:

- Illustrate the steps involved in developing, testing, and commercializing a mobile applications for iPhone, Android, Blackberry, and Windows Mobile 7
- Review and Analyze: Foundation, Learning Curve, Debuggers, Emulators, Integrated Development Environment, Cross-Platform Deployment, Installer Packaging Options, Development Tools, and Cost
- Demonstrate the services of several core components within popular API libraries and SDKs including Xcode, iOS/iPhone/iPad SDK, Android SDK, the Java SE Development Kit, Eclipse for Windows and the Java Eclipse plug-ins, Nokia's Web Runtime (WRT), Aptana Studio, VirtualBox, webOS SDK, BREW SDK, Java ME, Flash Lite and Windows Mobile 7
- Use the tools within popular SDKs to build mobile applications

- Design and architecture platform and device products with emphasis on messaging, collaboration, multimedia, and security
- Use SDKs features such as Layouts, Storage, Connectivity, Messaging, Browsing, Java support, Media support, Additional hardware support and Multi-touch
- Introduce the language and tools of the software development kits
- Expose common problems and learn how to troubleshoot them within the development environment and on the wireless device
- Use a wide variety of APIs for a variety of features, including graphics, multimedia, and web access
- Create mobile applications for iPhone, Android, Blackberry, Symbian, and Palm through examples

## 90011: iPhone and iPad Development Training

Duration:4 Day(s)

iPhone and iPad Development Training offers the knowledge and code you need to create advanced mobile applications for the iPhone and iPad, using iOS SDK. The course introduces you to this development paradigm and the Objective-C language.

Get the hands-on experience you need to program for the iPhone and iPad. With the iPhone and iPad development training, you'll build several applications by learning how to use Xcode tools, the Objective-C programming language, and the core frameworks.

- Get familiar with iOS SDK environment
- Create professional iPhone and iPad applications using the Software Developer Kit (SDK)
- Learn iOS programming and the tools for developing apps for iPhone and iPad
- Learn to use Objective-C, Xcode, and Interface Builder to develop native iOS applications for the iPhone and iPad
- Design user interface elements with Interface Builder and the UI Kit framework
- Create application controls, such as windows and navigation bars
- Build and manage layers and transformations using Core Graphics
- Write apps using network , camera, accelerometer, magnetometer, proximity sensor, vibration, geolocation, mapping and user location
- Debug common problems and use the development environment

### OBJECTIVES

Key features include:

- Objective-C programming language and runtime
- Interface Builder
- Building advanced mobile user interfaces
- Collections
- Cocoa Touch
- Core Animation and Quartz 2D
- Model-view-controller (MVC) designs
- Developing for the iPad
- Grand Central Dispatch
- Parsing XML documents using SAX, DOM, and TouchXML
- Working with the Map Kit API
- Remote and Local Push Notification
- Blocks (closures) in Objective-C
- Building advanced location-based applications
- Developing database applications using the SQLite engine
- GameKit framework

## 90012: Android Development Training

Cost: Call for Details | Duration: 3 Day(s)

Android Development Training is a hands-on course to building mobile applications based on Android SDK. This course covers all the essential features, and explores the advanced capabilities of Android (including GPS, accelerometers, magnetometers, sensors, and background Services) to help you construct increasingly complex, useful, and innovative mobile applications for Android devices.

Tonex is one of the first training companies in the world to provide commercial Android training classes and bootcamps.

The course starts with an introduction to mobile development, Android, and in-depth look at Android applications and their life cycle, the application manifest, Intents, and using external resources.

In this dynamic, three-day bootcamp style, you'll get up to speed to build your own mobile app. Our Android training classes can help you get off to a running start in Android development. Learn from expert developers with years of experience in Java and Android development tools and frameworks. You'll be creating working Android apps in the class.

- Create complex and compelling user interfaces by using, extending, and creating your own layouts and Views and using Menus.
- A detailed view at data storage, retrieval, and sharing using preferences, files, databases, and Content Providers.
- A detailed view ar background Services, using threads, and a detailed look at Notifications.
- A detailed coverage on Android's communication abilities including SMS, the telephony APIs, network management, and a guide to using Internet resources
- Details for using Android hardware, including media recording and playback, using the camera, accelerometers, magnetometer , GPS, and compass sensors.
- Advanced development topics including security, IPC, advanced 2D / 3D graphics techniques, and user–hardware interaction.

This course is for anyone interested in creating applications for the Android mobile device platform. It includes information that will be valuable whether you're an experienced mobile developer or making your first foray, via Android, into writing mobile applications. It will give the grounding and knowledge you need to write applications using the current SDK, along with the flexibility to quickly adapt to future enhancements.

### OBJECTIVES

Upon completion of this course, attendees will be able to:

- List Android Platform Highlights.
- Explore the contents of the Android SDK.
- Prepare their development computer and ensure it meets the system requirements.
- Install the SDK starter package . (If you're on Windows, download the installer for help with the initial setup.)
- Install the ADT Plugin for Eclipse (if you'll be developing in Eclipse).
- Add Android platforms and other components to their SDK.
- Understand how Android applications work, their life cycle, manifest, Intents, and using external resources
- Understand Android applications and their life cycle, the application manifest, Intents, and using external resources.

- Understand power of background Services, using threads, and a detailed look at Notifications.
- Understand communication abilities including SMS, the telephony APIs, network management, and a guide to using Internet resources.
- Understand Android hardware, including media recording and playback, using the camera, accelerometers, magnetometer, GPS, and compass sensors.
- Understand security, IPC, advanced 2D / 3D graphics techniques, and user–hardware interaction.
- Work with data storage, retrieval, and sharing using preferences, files, databases, and Content Providers.
- Design and develop innovative applications with enhanced features
- Build their own Android apps
- Create map-based applications such as location-based services and the geocoder.
- Create complex and compelling user interfaces by using, extending, and creating your own layouts and Views and using Menus.

## 90015: HP webOS App Development Training

Cost: Call for Details | Duration: 2 Day(s)

HP WebOS training (HP webOS 3.0) introduces mobile app development based on HP's web-based operating system. The course builds the foundation to develop webOS applications composed of one or more distinct scenes, rendered on a stage.

The webOS Mojo Framework is introduced along with the Services API that provides access to system and hardware capabilities.

Using services, mobile applications can send and receive messages from a remote server, communicate with other applications on the device, set alarms and calendar events, and play media files.

## 90016: Windows Phone 7 Training (Development)

Cost: Call for Details | Duration: 3 Day(s)

This Windows Phone 7 Training course for developers will give you a technical background into the new Windows Phone world by providing you with the guidelines and the key tools to program Windows Phones.

Windows Phone 7 promises to be an amazing mobile phone operating system given its innovative user interface and functionality, as well as its great development platform upon which you can quickly and easily build games and applications using Silverlight and XNA Framework.

## Mobile App Development

### 90013: Blackberry Mobile Applications Development

Cost: \$1,499 | Duration: 3 Day(s)

Blackberry Development Training is a hands-on course to building mobile applications based on Blackberry SDK. This course covers all the essential features, and explores the advanced capabilities of Blackberry to help you construct increasingly complex, useful, and innovative mobile applications for Blackberry devices. The course starts with an introduction to mobile development, and in-depth look at Blackberry applications and their life cycle.

In this dynamic, three-day bootcamp style, you'll get up to speed to build your own mobile app. Our Blackberry training classes can help you get off to a running start in Blackberry development. Blackberry Development Training allows system administrators and BlackBerry smartphone developers to learn how to better create and manage the advanced applications and features and capabilities of BlackBerry smartphones and software.

BlackBerry Training courses are developed by BlackBerry experts from Tonex, enthusiastic trainers who are skilled at helping participants understand, absorb and retain knowledge.

### 90014: Blackberry Tablet Application Development Training

Cost: \$1,499 | Duration: 4 Day(s)

Blackberry Tablet Application Development Training course covers all aspects to create applications for the BlackBerry® PlayBook™ tablet. This program covers application development processes for BlackBerry and Tablet OS SDK for Adobe AIR, Flash and BlackBerry WebWorks.

Explore BlackBerry® WebWorks™ SDK for Tablet OS to create applications based on web technologies such as JavaScript®, HTML5 and CSS. This development approach allows you to use the same code to target both BlackBerry smartphones and tablets.

### 90018: Mobile Applications Security Training

Cost: \$1,499 | Duration: 2 Day(s)

#### MOBILE APPLICATIONS SECURITY TRAINING BY TONEX

Tonex Mobile Applications Security Training provides complete and current coverage of Mobile application and mobile platform security. The course provides a solid foundation in basic mobile application security terminology and concepts, extended and built upon throughout the engagement. Attendees will examine various recognized attacks against mobile applications.

This Award Winning 2-Day Mobile Application Security and Penetration Testing Boot Camp focuses on preparing students for the real Mobile App Pen Testing through **EXTENSIVE LAB EXERCISES**, thought provoking **LECTURES** led by an **EXPERT INSTRUCTOR**. We review of the entire body of knowledge as it pertains to mobile application pen testing through a high-energy seminar approach.

Processes and best practices are discussed and illustrated through both discussions and group activities. Attending will be led through a series of advanced topics including performance and network optimization along with advanced security topics comprised of integrated lectures, group discussions and comprehensive demonstrations.

Mobile Application security encompasses measures taken throughout the application's life-cycle to prevent exceptions in the security policy of an application or the underlying system (vulnerabilities) through flaws in the design, development, deployment, upgrade, or maintenance of the mobile application.

Mobile Applications only control the use of resources granted to them, and not which resources are granted to them. They, in turn, determine the use of these resources by users of the mobile application through mobile application security.

TONEX brings the first mobile application security training to developers, architects, testers, managers and security professionals. The course provides:

- Mobile application security, penetration, secure coding, mobile applications security testing, application penetration testing & ethical hacking
- Language specific secure software development for Objective C, C/C++, Java, HTML5, ActionScript, Ruby, and CSS
- Digital Certificates, Digital Signatures, Keys, Trust Services, PKI, Keychain, Remote Transport Security, SSL and TLS

#### OBJECTIVES

Upon completion of this course, the attendees will:

- Understand the concepts and terminology behind mobile application security
- Understand the basics of Cryptography, Encryption, Integrity and where they fit in the overall mobile application security picture
- Understand mobile application software vulnerabilities based on realistic threats
- Learn the entire spectrum of threats, attacks that take place against mobile applications and mobile platforms in today's world
- Understand the vulnerabilities of mobile programming language such as Objective C and Java
- Understand the requirements and best practices for mobile applications management
- Understand how to find Vulnerabilities in Source Code
- Learn the Secrets of Mobile App Pen Testing in a totally hands-on classroom environment
- Learn how to exploit and defend real-world Mobile apps
- How to properly secure data
- Best practices on authentication, authorizations and Integrity of data
- How to avoid security pitfalls with mobile apps
- Tools and techniques to harden your applications against reverse engineering
- Complete TONEX's Innovative 100 Step "Mobile App Pen Test Methodology"