



Mobile testing Course Content:35-40hours

Course Outline

Mobile Testing

- What is Mobile Testing?
- How is Mobile Testing different from Web Testing?
- What is Android Emulator and iPhone Simulator
- Exercise & Assignments

Setting up Android Emulator for Testing

- Setting up Eclipse IDE
- Setting up Android SDK
- Setting up Eclipse Android ADT Plugin
- Setting up Android Virtual Devices
- Android Versions and SDKS
- Types of Android AVDs

Understanding Android Framework for Effective Testing

- Architecture Overview
- Application Life Cycle Management
- Application Components
- Using Resources
- Activities
- Intents
- Services
- Content Providers
- Exercise & Assignments

Testing Android User Interface

- Various Layout types, such as LinearLayout, RelativeLayout etc
- Views



- View Hierarchy
- Layout
- Widgets
- UI Events
- Adapters
- Exercise & Assignments

Verifying Data on SQLite Database

- SQLite on Android™
- SQL Basics
- Database Connectivity
- Data Binding
- Using ContentProvider
- Implementing ContentProvider
- Exercise & Assignments

Testing Web Applications on Mobile Devices

- What is HTML5
- Mobile Browser Compability
- Testing Strategy
- Testing Steps
- Industry Tools for Web Application Testing on Mobile Devices
- Exercise & Assignments

Android Testing Environment

- Android Test Projects
- Android Test Case Classes
- Additional Android Assertions
- Mock Object Classes
- Touch and Key Events
- Testing and Threading Issues
- Exercise & Assignments

Using JUnit for Android Unit Testing

- Getting Started with JUnit
- Creating JUnit Test Cases
- Assertions

- Testing for Exceptions
- Test Fixtures
- Test Suites
- Running Tests and Reporting
- Exercise & Assignments

Productivity Tips

- The Android Debug Bridge (adb) and the Android Emulator Console
- Installing and Uninstalling Apps
- Copying Files to and from the Emulator/Device
- Issuing Shell Commands on the Emulator/Device
- Viewing the System Log with adb logcat
- Emulator Runtime Images: User Data and SD Card
- Exercise & Assignments