# PhoneGap Course Contents

## Overview of Essential Skills

## Course content

· HTML, CSS and Javascript
· jQuery and jQueryUI frameworks
· Optional jQueyrmobile and BBUI frameworks
· AJAX and JSON
· Local storage
· App navigation techniques

## Apache Cordova and PhoneGap build

· Understanding the open source parts of PhoneGap (Cordova)
· Where Adobe PhoneGap Build fits in
· Free and paid accounts with Adobe PhoneGap Build
. Creating a Development Environment
· Eclipse with Plug-Ins
· Running Android Simulators
· Optional Apple Mac setup in XCode

## Mobile Projects

· Creating a new project
· Importing a boiler-plate project
· Enabling PhoneGap for existing projects

## Obtaining and Using Signing Certificate Keys

· Apple Developer program
· Android Developer keys
· Blackberry and Windows keys

## Understanding the Technologies

· WebKit
· Overview of native app development structures
· Overview of essential platform-specific configuration files
· App icons, covers and UI furniture
· PhoneGap white-listing

## Mobile-Specific Coding Techniques

· Writing Javascript Optimised for Mobile
· Managing memory on mobiles
· CSS optimisations

- User-Interface best practices
- When to go native

## Accessing Native APIs
- Geolocation
- Camera
- Accelerometer
- Contacts
- Other device-specific APIs

## Workflow
- Subscribe to platform developer schemes as required (may incur fees)
- Plan and Create App
- Test and Debug
- Compile to multiple platforms with PhoneGap build
- Overview of the command-line compile process
- Deploy to app markets

## Additional Development tools
- Blackberry and Windows Phone 8 emulators
- Ripple Emulator in Chrome
- Free Microsoft tools for Windows 8