

Windows Phone 7 Development

(4 days hands-on)

Windows Phone 7 is Microsoft's state-of-the-art mobile phone operating system, and has already been widely adopted by a wide range of devices. This course will help you exploit the rich potential of this platform to create mobile applications with stunning graphics, rich business functionality, and full connectivity to corporate systems and social media sites.

This course can be used as part of your preparation for Microsoft Exam 70-599: Pro: Designing and Developing Windows Phone Applications.

Contents:

- **Overview of Windows Phone 7:** Overview of mobile development platforms; The role of Windows Phone 7; Using Visual Studio 2010 to create Windows Phone 7 applications; Overview of Expression Blend; Using the Windows Phone Emulator
- **UI Development:** Overview of standard controls; Layout; Using style, themes, and resources
- **Data Visualization:** Element binding; Resource binding; Data binding; Data converters; Using the MVVM pattern; Using Prism
- **Dynamic User Interfaces:** Animation; Behaviors; Visual State Management; Pivot controls and panoramic controls;
- **Screen Management:** Detecting the screen orientation; Using the soft input panel; Using the application bar; Using the system tray
- **Performing Navigation:** Understanding pages and navigation; Backward navigation; Wizards; Performing background processing
- **Managing Notifications:** Understanding push navigations; Categories of push navigations; Implementing push navigations; Tile, toast, and RAW notifications; Creating and updating live tiles
- **Going Further with User Interactions:** Interacting with the camera, photos, phone, SMS, and e-mails; Using tasks and choosers; Using multi-touch gestures; Using vibrations
- **Media Management:** Playing back media; Recording audio; Interacting with the FM tuner
- **Geo-location:** Overview of geo-location; Basics of map interactions; Details of map interactions
- **Designing Data Access Strategies:** Communicating with external Web services (WCF and WS*); Consuming and parsing data from Web services; Trusted data transfer; Disconnected and low-bandwidth scenarios
- **Data Storage:** Persistent vs. transient data; Isolated storage; Cloud-based storage
- **Application Architecture:** Threading; Monitoring and tuning performance; Managing the application lifecycle; Localization and globalization

Who Should Attend:

Developers who want to create compelling Windows 7 Phone applications.

Prerequisites:

Good working knowledge of C# is essential. An awareness of mobile development is an advantage but is not assumed.