**Curriculum For WPF**

**WPF Training Content**

**Introduction to WPF (Windows Presentation Foundation Using C#)**

* Why WPF?
* What Is WPF?
* .NET Framework 4.0 (WinFX)
* WPF Overview
* Application and Window
* A Simple WPF Application
* Using Visual Studio
* Brushes
* Panels

**XAML**

* Role of XAML
* Elements and Attributes
* Namespaces
* Property Elements
* Type Converters
* Content Property
* Collections
* XAML and Procedural Code

**WPF Controls**

* Button
* Label
* TextBox
* ToolTip
* RadioButton
* CheckBox
* ListBox
* ComboBox

**Layout**

* Sizing
* Positioning
* Transforms
* Canvas
* Drawing Shapes
* StackPanel
* WrapPanel
* DockPanel
* Grid
* Scrolling
* Scaling

**Dialogs**

* Message Boxes
* Win32 Common Dialogs
* Custom Modal Dialogs
* Custom Modeless Dialogs

**Menus and Commands**

* Menus
* Context Menus
* Icons on Menu Items
* Commands
* Keyboard Shortcuts
* Disabling Menu Items
* Checking Menu Items

**Toolbars and Status Bars**

* Toolbars
* Toolbars and Commands
* Status Bars

**Dependency Properties and Routed Events**

* Dependency Properties
* Change Notification
* Property Value Inheritance
* Support for Multiple Providers
* Routed Events
* Routing Strategies

**Resources**

* Resources in WPF
* Binary Resources
* Logical Resources
* Static versus Dynamic Resources

**Styles, Templates, Skins and Themes**

* Styles
* Style Sharing
* Triggers
* Templates
* Templated Parent’s Properties
* Skins
* Themes

**Data Binding**

* Binding Sources
* Sharing Sources with DataContext
* Data Templates
* Value Converters
* Collection Views
* Data Providers

**Validation Rules**

**WPF Training Course Objective**

* Understand the WPF architecture and advantages
* Become proficient with the use of XAML
* Layout and containers in WPF
* Achieve reuse and maintainability with resources, styles, and templates
* Build compelling user experiences with custom drawing and animations
* Learn how to properly apply the MVVM design pattern via applications of increasing complexity
* Introduction to Windows 8 Applications