



# Course Brochure

## SharePoint Development

### Overview

- This course is targeting .NET developers without any prior SharePoint 2013 development skills who want to develop for Office 365, SharePoint Foundation 2013 or SharePoint Server 2013 product.

### Pre-requisites

- Students attending this course should have professional development experience with Visual Studio, the .NET Framework and ASP.Net as well as familiarity with Microsoft Office products such as Word and Excel.

### Applications

## COURSE CONTENTS

### SharePoint 2013 Fundamentals

- ❖ Office 365 versus SharePoint Foundation 2013 versus SharePoint Server 2013
- ❖ SharePoint 2013 architecture
- ❖ SharePoint Farms
- ❖ SharePoint Service Applications
- ❖ SharePoint Web applications
- ❖ Site Collections and Sites
- ❖ Lists and Document Libraries
- ❖ Site Columns and Content Types
- ❖ Site Templates and Site Definitions

### Introducing SharePoint 2013 Development

- ❖ What is SharePoint development all about?
- ❖ What are the skills needed?
- ❖ Your development environment
- ❖ Windows PowerShell and SharePoint

### Server Object Model

- ❖ Server-Side API overview
- ❖ Server-Side Data Access
- ❖ CAML queries
- ❖ LINQ Primer
- ❖ LINQ for SharePoint

### Developing SharePoint Solutions

- ❖ Introducing SharePoint Solutions
- ❖ Farm Solutions vs Sandboxed solutions
- ❖ Creating a SharePoint Solution
- ❖ Adding and Deploying SharePoint Solutions with Visual Studio
- ❖ Deploying SharePoint Solution packages using Powershell

### SharePoint 2013 Features Framework

- ❖ Introducing Features
- ❖ Building Features using Visual Studio
- ❖ Installing, Activating, Deactivating and Uninstalling Features
- ❖ Feature Receivers
- ❖ Working with the Property Bag
- ❖ Feature Stapling
- ❖ Feature and Solution Dependencies
- ❖ Upgrading Features and Solutions

### Event Receivers

- ❖ Handling Web Related Events
- ❖ Handling List Related Events
- ❖ Handling Item Related Events

### Developing WebParts

- ❖ Introduction to Web Parts
- ❖ Creating Custom Web Parts
- ❖ Visual Web Parts
- ❖ Exposing Web Part Properties
- ❖ Connectable Web Parts

### SharePoint Pages

- ❖ Web Part Pages vs Wiki Pages vs Application Pages
- ❖ Provisioning Pages with Modules and Features
- ❖ Developing Application Pages

### Custom Timer Jobs

- ❖ Job Definition Object Model
- ❖ Developing, deploying and debugging a Custom Job Definition

## COURSE CONTENTS

### Reusable Type Definitions and Templates

- ❖ Field Types and Field Controls
- ❖ Site Columns and Content Types
- ❖ List Definitions and Templates
- ❖ Site Definitions
- ❖ Web Templates

### Client Side Object Model and REST in SharePoint 2013

- ❖ Introducing SharePoint 2013 Client API
- ❖ SharePoint 2013 Client Side Object Model
- ❖ Programming with CSOM in .NET, JavaScript and Silverlight
- ❖ REST and OData Fundamentals
- ❖ SharePoint 2013 REST API
- ❖ Programming with REST

### UI Customization

- ❖ Programming SharePoint Navigation
- ❖ Extending the Ribbon User Interface
- ❖ Dialog and Notification Framework

### Customizing the SharePoint Rendering with JSLink

- ❖ Basic JSLink syntax
- ❖ Using JSLink in Web Parts, Content Types, Fields and Lists
- ❖ Using JSLink in Features and code
- ❖ Performance impact

### Developing Apps for SharePoint

- ❖ Why apps?
- ❖ SharePoint 2010 Development Challenges
- ❖ App Principles

- ❖ App web & host web
- ❖ SharePoint 2013 developer tools in Visual Studio
- ❖ Provider-hosted and SharePoint-Hosted Apps
- ❖ Design considerations
- ❖ Developing App Parts and Custom actions
- ❖ Deployment of SharePoint apps

### Remote Event Receivers

- ❖ Remote Event Receivers scenarios
- ❖ Developing Remote Event Receivers
- ❖ Remote Event Receivers in SharePoint apps
- ❖ Upgrading apps with Remote Event Receivers

### SharePoint Security

- ❖ Authentication & Authorization
- ❖ Claims Based Authentication
- ❖ Programming Security
- ❖ Securing Apps

### Developing Workflows

- ❖ Understanding the Workflow Architecture
- ❖ Creating Workflows with SharePoint Designer 2013
- ❖ Creating Workflows with Visual Studio 2012

### Business Connectivity Services

- ❖ BCS Architecture
- ❖ Creating & Using External Content Type Models
- ❖ BCS Apps
- ❖ .NET Assembly Connectors
- ❖ Authentication Options