

# SharePoint 2013 Developer Training

**DURATION:** 40 Hours

## SHAREPOINT 2013 DEVELOPER TRAINING OBJECTIVES

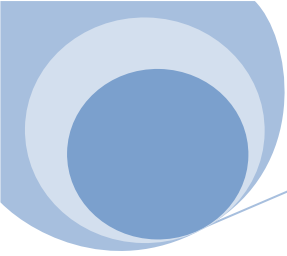
- Understand SharePoint 2013 both from a capability and architectural perspective
- Use farm and sandbox solutions
- Extend SharePoint sites using the SharePoint AppModel
- Create custom application pages as well as content pages
- Program with the security API and secure SharePoint Apps using app identity
- Create lists and document libraries using the SharePoint development tools in Visual Studio 2012
- Build solutions that run on the server and use the SharePoint Server-Side API
- Leverage each of the three client object models (CSOM) implementations in SharePoint projects
- Create custom workflows
- Consume and interact with external data sources as well as create a custom .NET Assembly Connector
- Understand the search architecture and use it in custom solutions
- Use all of the Enterprise Content Management (ECM) capabilities

## SHAREPOINT 2013 DEVELOPER TRAINING PREREQUISITES

Attendees should have development experience with Visual Studio, the .NET Framework and ASP.NET as well as familiarity with Microsoft Office products such as Word and Excel. It is also recommended (but not required) that attendees have a back.

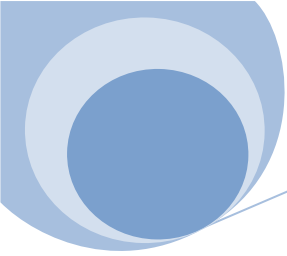
## SOFTWARE:

- Each student will need a separate environment (either local or virtual) with a full installation of SharePoint Server 2013. We will provide detailed specifications for the student environment, including:
  - 64-bit processor with at least 4 cores
  - At least 24 GB RAM (32 GB or more RAM recommended)
  - SharePoint Server 2013 installed, including a 64-bit Windows Server 2012 operating system and a SQL Server 2012 database, and also client tools such as Internet Explorer, Office 2013, and Visual Studio 2013.
- During the process of scheduling the class, we will host a conference call with you to discuss setup options.



## SHAREPOINT 2013 DEVELOPER TRAINING OUTLINE

- 1. Understanding SharePoint 2013**
  - SharePoint Product Topology & Architecture
  - Capabilities
  - SharePoint Deployment Options
  - Development & Extensibility Option Overview
- 2. Developing SharePoint Solutions**
  - Farm Solutions
  - Sandbox Solutions
  - SharePoint Features
  - Solution Packages
- 3. Developing SharePoint App Models**
  - SharePoint App Model Overview
  - SharePoint Hosted Apps
  - Developer/Self-Hosted Apps
  - Azure Auto-Hosted Apps
- 4. Pages and Navigation**
  - Master Pages
  - Site & Application Pages
  - Navigation
  - Chrome Control
  - Ribbon Extensibility
- 5. SharePoint Security**
  - Authentication & Authorization
  - Claims Based Authentication
  - OAuth & Server-to-Server (S2S)
- 6. Lists, Libraries, and Events**
  - List Instances
  - Document Libraries
  - Event Receivers (Sites, Lists & List Items)
  - Remote Event Receivers
- 7. Server-Side SharePoint Development**
  - Server-Side API Overview
  - Server-Side Data Access
  - CAML, SPQuery & SPSiteDataQuery
  - LINQ for SharePoint



## **8. Client-Side SharePoint Development**

- Programming with JavaScript
- Client Side Object Model (CSOM)
- WCF Data Services / OData / REST API
- Client-Side Cross Domain Calls
- JavaScript Controls (Notifications, Status Messages, Toast Messages & Dialogs)

## **9. Developing Workflows**

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

## **10. Business Connectivity Services**

- Business Connectivity Services (BCS) Architecture
- Creating & Using External Content Type Models

## **11. SharePoint Search**

- SharePoint Search Architecture
- Search Web Parts
- Customizing Search
- Programming with the Search API

## **12. Enterprise Content Management**

- Document Management
- Records Management
- Document Sets
- Managed Metadata