

SHAREPOINT 2013 DEVELOPER TRAINING COURSE CONTENT

❖ **SHAREPOINT 2013 DEVELOPER TRAINING OBJECTIVES:**

ALL STUDENTS WILL LEARN TO:

- 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 use 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

❖ **UNDERSTANDING SHAREPOINT 2013:**

- SharePoint Product Topology & Architecture
- Capabilities
- SharePoint Deployment Options
- Development & Extensibility Option Overview

❖ **DEVELOPING SHAREPOINT SOLUTIONS:**

- Farm Solutions
- Sandbox Solutions
- Breaking Out of the Sandbox
- SharePoint Features
- Solution Packages

❖ **DEVELOPING SHAREPOINT APP MODELS:**

- SharePoint App Model Overview
- SharePoint Hosted Apps
- Developer/Self-Hosted Apps
- Azure Auto-Hosted Apps
- Public & Corporate Marketplace

❖ **PAGES AND NAVIGATION:**

- SharePoint + ASP.NET
- Master Pages
- Site & Application Pages
- Navigation
- Chrome Control
- Ribbon Extensibility

❖ **SHAREPOINT SECURITY:**

- Authentication & Authorization
- Claims Based Authentication
- Programming Security
- Securing Apps
- App Identity

- OAuth & Server-to-Server (S2S)

❖ **LISTS, LIBRARIES, AND EVENTS:**

- List Instances
- Document Libraries
- Event Receivers (Sites, Lists & List Items)
- Remote Event Receivers

❖ **SERVER-SIDE SHAREPOINT DEVELOPMENT:**

- Server-Side API Overview
- Server-Side Data Access
- CAML, SPQuery & SPSiteDataQuery
- LINQ for SharePoint
- Working with Large Data Sets

❖ **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)

❖ **DEVELOPING WORKFLOWS:**

- Understanding the Workflow Architecture
- Windows Azure Workflow
- Workflow Stages
- Dynamic Values
- Creating Workflows with SharePoint Designer 2013
- Creating Workflows with Visual Studio 2012

❖ **BUSINESS CONNECTIVITY SERVICES:**

- Business Connectivity Services (BCS) Architecture
- Creating & Using External Content Type Models
- BCS Apps
- .NET Assembly Connectors
- Authentication Options

❖ **SHAREPOINT SEARCH:**

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

❖ **ENTERPRISE CONTENT MANAGEMENT:**

- Document Management
- Records Management
- Document Sets
- Managing Large Content Sets
- eDiscovery
- Managed Metadata

- Programming with Managed Metadata (server & client side)

❖ **CONCLUSION**

DEVELOPER TRAINING PREREQUISITES

❖ **SOFTWARE NEEDED ON EACH STUDENT PC:**

THIS SHAREPOINT 2013 DEVELOPER TRAINING COURSE REQUIRES:

- Your own environment (local or virtual) with the following:
 - 64-bit processor with at least 4 cores
 - The 64-bit edition of Windows Server 2008 R2 Service Pack 1 (SP1) Standard, Enterprise, or Datacenter or the 64-bit edition of Windows Server 2012 Standard or Datacenter
 - The 64-bit edition of SQL Server 2008 R2 Service Pack 1 or The 64-bit edition of Microsoft SQL Server 2012
 - At least 24GB RAM (32GB or more RAM recommended)
 - At least 80GB free hard drive space on the system drive
 - .NET Framework 4.5 or later
 - Visual Studio 2012 or later [Anne, please note this only for the Developer class]

