

SharePoint 2010 Developer Core Skills

Course Length: 5 days

Price: \$3,000

Summary

Microsoft SharePoint 2010 has reached a new level of features for .NET and web development that far exceeds previous versions. This course introduces SharePoint 2010 as a development platform, which includes creating sites, lists and pages. In creating these items you'll be introduced to the many new features that SharePoint 2010 has to offer. You will explore new SharePoint projects, item templates, feature and package designer found in Visual Studio 2010. The course explores programming lists with managed code including list instances, define views, CAML queries and more. The SharePoint Client model is covered next with object instances, Silverlight and other elements. You will learn about branding for pages and styles, and the importance of Sandbox Solutions. You will see client side programming in JavaScript, as well as Site definitions and Web Templates as well as Security, Business Services and Workflow basics. To end the course you will see how to program navigation and the ribbon bars.

In this course, you will learn how to:

- Setup the SharePoint architecture
- Define fields, create content types and list instances
- Use new SharePoint templates and Projects found in Visual Studio 2010
- Display webs and lists with a Web Part
- Create user controls and delegate controls
- Use the client object model in JavaScript (ECMA Script) clients
- Creating event handlers and custom list forms
- Create Master pages, themes and custom styles for the entire web site
- Use a Sandbox for SharePoint development
- Use jQuery with SharePoint
- Create Core Foundation Site definitions
- Assign right and permissions to individual and groups
- Consume .NET assemblies and WCF services
- Create custom actions and navigation providers

Who Should Attend?

This course is intended for .NET developers who want to learn how to create custom SharePoint solutions. This course requires an understanding of Web development with .NET technologies and Visual Studio. It does not require knowledge of SharePoint, but that is helpful to get the most out of the course.

Course Outline

Getting Started

- SharePoint as a Development Platform
- Creating a Site
- Lists and Pages
- SharePoint Architecture
- Virtual Paths and Safe Mode

Features

- About Features
- Deploy Files with Module
- Define Fields
- Create Content Types
- Create List Instances

Developing SharePoint Solutions with Visual Studio 2010

- SharePoint 2010 Project and Item Templates
- Using the Feature Designer
- Using the Package Designer and Package Explorer
- Configuring Deployment and Activation
- Debugging
- Importing Web Solution Packages

Writing Managed Code with the SharePoint Object Model

- Core Classes in Microsoft SharePoint
- Display Webs and Lists with a Web Part
- Elevation of Privileges
- Managing Resources with Dispose
- Using SPDisposeCheck
- Basic Troubleshooting

Programming Lists with Managed Code

- List Object Model
- Manipulate Lists and List Items
- Create List Instances
- Define Views
- CAML Queries
- Joins
- LINQ to SharePoint

User Controls and Web Parts

- Control Basics
- Create User Controls
- Visual Web Parts
- Delegate Controls
- Create Web Parts
- Exposing Properties to the Web Part Editor
- Create Custom Editor Parts

SharePoint Client Object Model

- Introduction to the Client Object Model
- Loading Object Instances
- Using the Client Object Model in Managed Code
- Using the Client Object Model in Silverlight Clients
- Using the Client Object Model in JavaScript (ECMA Script) Clients
- Using the Dialog Framework

Programming with List Items and Custom List Forms

- Create, Read, Update and Delete List Items
- Dealing with Complex Field Types
- Creating Event Handlers
- Creating Custom List Forms with SharePoint Designer
- Incorporating Custom List Forms into Visual Studio Solutions
- Creating Fully Custom List Forms in Visual Studio
- Adding Custom Actions to the Ribbon and Edit Control Block

Basic Look and Feel

- Control Basic Look and Feel
- Using Features and .NET
- Creating and Using Themes
- Using Cascading Style Sheets (CSS)
- Using Themes with Custom Styles

Master Pages

- Creating SharePoint Master Pages in ASP.NET
- Understanding the v4.Master Page
- Default and Custom Master Page Tokens
- Build Custom Master Pages
- Deploy Custom Master Pages

Sandbox Solutions

- Sandbox Overview
- Sandbox Benefits
- Sandbox Limitations
- Visual Studio 2010 SharePoint Power Tools
- Creating Visual Web Parts
- Full Trust Proxies

Site Definitions and Web Templates

- Core Foundation Site Definitions
- Custom Site Definitions
- WebTemp and ONET.xml
- Web Template Features

Security

- Creating Users and Groups with Code
- Defining and Using Permission Levels Programmatically
- Rights Masks and Security Trimming
- Writing Authorization Code
- Navigation and the Ribbon
- Configure Navigation Programmatically
- SPMenu Control
- Using Custom Actions for Menues and Links
- Using Custom Actions for Ribbon Controls
- Working with the Ribbon

Business Connectivity Services

- Understanding Business Data Connectivity Services
- Creating External Content Types and Lists with SharePoint Designer 2010
- Adding Actions
- Consuming .NET Assemblies with WCF Services
- Creating BCS Applications for SharePoint Foundation with Visual Studio 2010
- Migrating Declarative Models to Visual Studio Solutions

Workflow Basics

- SharePoint Designer Site Workflows
- SharePoint Designer Reusable
- Deploying Declarative Workflows with Web Solution Packages
- Importing Reusable Workflows into Visual Studio
- Building Custom Workflow with Visual Studio