



Course M10175-ILT

Microsoft SharePoint 2010, Application Development

Five days, Instructor-Led

INTRODUCTION

This course provides existing .NET developers with practical information and labs that enables them to build solutions on the Microsoft SharePoint 2010 platform.

AUDIENCE PROFILE

This course is intended for professional developers who use Microsoft SharePoint 2010 in a team-based, medium-sized to large development environment. Members of the audience are experienced users of Microsoft Visual Studio 2008 SP1. The audience understands how to use the new features of SharePoint 2010 and Visual Studio 2010.

PREREQUISITES

Before attending this course, students must have:

- An understanding of the problem-solving techniques that apply to software development
- Approximately 12 months experience with ASP.NET 3.5 with Visual Studio 2008 (or later)
- Approximately 1 month development experience with SharePoint 2007 or SharePoint 2010 and VS2010 (includes beta releases) creating code that interacts with the SharePoint Server-side APIs
- Experience performing end user tasks with SharePoint 2007 or SharePoint 2010 and an understanding of the purpose and use of the following:
 - Lists
 - Documents and Libraries
 - Personalizing an SP page/site
 - Using MySites
 - Using SharePoint Designer

COURSE OUTLINE

MODULE 1: INTRODUCTION TO THE SHAREPOINT 2010 DEVELOPMENT PLATFORM

This module describes the SharePoint 2010 development platform and the benefits and features that it offers to developers.

Lessons

- Lesson 1: SharePoint 2010 as a Development Platform
- Lesson 2: SharePoint 2010 Object Hierarchy
- Lesson 3: Working with SharePoint 2010 Objects

Lab: Developing with the SharePoint 2010 Object Hierarchy

- Exercise 1: Creating SharePoint 2010 Application Pages by Using Visual Studio 2010
- Exercise 2: Enumerating SharePoint 2010 Farm Hierarchies
- Exercise 3: Manipulating Properties of Objects in the SharePoint Farm

MODULE 2: USING SHAREPOINT 2010 DEVELOPER TOOLS

This module describes how to use development tools that are integrated with the SharePoint 2010 development platform, such as Visual Studio 2010 and SharePoint Designer 2010.

Lessons

- Lesson 1: Developing SharePoint Sites by Using SharePoint Designer 2010
- Lesson 2: Developing SharePoint Solutions by Using Visual Studio 2010
- Lesson 3: Packaging and Deploying SharePoint 2010 Solutions

Lab: Using SharePoint 2010 Developer Tools

- Exercise 1: Creating Document Libraries by Using SharePoint Designer 2010
- Exercise 2: Creating SharePoint List Definitions and Instances by Using Visual Studio 2010
- Exercise 3: Packaging Features and Solutions by Using Visual Studio 2010

MODULE 3: DEVELOPING SHAREPOINT 2010 WEB PARTS

This module describes how to develop Web Parts for SharePoint 2010 solutions.

Lessons

- Lesson 1: Developing Standard Web Parts
- Lesson 2: Developing Connected Web Parts
- Lesson 3: Developing Visual Web Parts

Lab: Creating SharePoint 2010 Web Parts by Using Visual Studio 2010

- Exercise 1: Creating, Deploying, and Debugging a Simple Web Part by Using Visual Studio 2010
- Exercise 2: Using SharePoint Components in a Web Part
- Exercise 3: Creating a Visual Web Part by Using Visual Studio 2010

MODULE 4: WORKING WITH SHAREPOINT OBJECTS ON THE SERVER

This module describes how to develop code that uses the server-side objects provided by the SharePoint 2010 development platform.

Lessons

- Lesson 1: Working with SharePoint Sites Programmatically
- Lesson 2: Working with SharePoint Lists Programmatically
- Lesson 3: Working with List Data Programmatically

Lab: Creating and Manipulating Server-Side Objects

- Exercise 1: Creating and Securing Sites Programmatically
- Exercise 2: Creating Lists Programmatically
- Exercise 3: Retrieving Secured Data

MODULE 5: CREATING EVENT RECEIVERS AND APPLICATION SETTINGS

This module describes how to develop event receivers and manipulate application settings for SharePoint 2010 solutions.

Lessons

- Lesson 1: Creating Event Receivers
- Lesson 2: Working with Web.Config Programmatically

Lab: Creating Event Receivers and Web.Config Modifications

- Exercise 1: Creating List Event Receivers
- Exercise 2: Creating Feature Receivers to Modify Web.Config
- Exercise 3: Creating Web Event Receivers

MODULE 6: DEVELOPING SOLUTIONS BY USING BUSINESS CONNECTIVITY SERVICES

This module describes how to develop solutions that access external data by using Business Connectivity Services.

Lessons

- Lesson 1: Business Connectivity Services Overview
- Lesson 2: Developing External Content Types and Lists by Using SharePoint Designer
- Lesson 3: Developing Business Connectivity Services Solutions by Using Visual Studio 2010

Lab: Building Business Connectivity Services Solutions

- Exercise 1: Creating External Content Types and Lists by Using SharePoint Designer 2010
- Exercise 2: Creating Business Data Catalog Models by Using Visual Studio 2010

MODULE 7: DEVELOPING SHAREPOINT 2010 WORKFLOWS

This module describes how to develop workflows as part of SharePoint 2010 solutions.

Lessons

- Lesson 1: Creating Workflows with SharePoint Designer
- Lesson 2: Creating Workflows with Visual Studio 2010

Lab: Creating Workflows for SharePoint 2010

- Exercise 1: Creating Workflows by Using SharePoint Designer
- Exercise 2: Creating a Sequential Workflow by Using Visual Studio 2010

MODULE 8: WORKING WITH CLIENT-BASED APIS FOR SHAREPOINT 2010

This module describes how to develop code that uses the client-side objects provided by the SharePoint 2010 development platform.

Lessons

- Lesson 1: Overview of the SharePoint 2010 Client Object Model

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- Lesson 2: Working with the SharePoint 2010 Client Object Model in .NET Applications

Lab: Developing .NET Applications by Using the SharePoint Client Object Model

- Exercise 1: Creating a SharePoint 2010 Site, List, and List Items Using the Client Object Model
- Exercise 2: Building and Using the Console Application

MODULE 9: DEVELOPING INTERACTIVE USER INTERFACES

This module describes how to develop server ribbon controls and client dialogs for the new user interface platform of SharePoint 2010.

Lessons

- Lesson 1: Creating Menu Items and Ribbon Controls
- Lesson 2: Creating Client-Side Dialogs

Lab: Developing User Interface Components for SharePoint 2010 Solutions

- Exercise 1: Creating a Site Actions Menu Item
- Exercise 2: Creating a Ribbon Item
- Exercise 3: Creating a Client-Side Dialog

MODULE 10: DEVELOPING SILVERLIGHT APPLICATIONS FOR SHAREPOINT

This module describes how to develop Silverlight applications that are integrated with SharePoint 2010 data and solutions.

Lessons

- Lesson 1: Creating Silverlight Applications for SharePoint 2010
- Lesson 2: Deploying and Debugging Silverlight Applications for SharePoint 2010

Lab: Developing Silverlight Applications by using the SharePoint Client Object Model

- Exercise 1: Creating a Silverlight Application
- Exercise 2: Developing the Silverlight Application

MODULE 11: DEVELOPING SANDBOXED SOLUTIONS

This module describes how to develop sandboxed solutions for SharePoint 2010.

Lessons

- Lesson 1: Sandboxing and User Solutions
- Lesson 2: Restrictions for Sandboxed Solutions

Lab: Creating Sandboxed Solutions for SharePoint 2010

- Exercise 1: Creating a Sandboxed Solution by Using Visual Studio 2010
- Exercise 2: Investigating Allowed and Disallowed Operations in Sandboxed Solutions



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MODULE 12: WORKING WITH SHAREPOINT SERVER PROFILES AND TAXONOMY APIS

This module describes how to develop code that uses the taxonomic and user profile services of the SharePoint 2010 development platform.

Lessons

- Lesson 1: User Profiles
- Lesson 2: Taxonomies

Lab: Working with User Profiles and Taxonomies Programmatically

- Working with User Profiles and Taxonomies Programmatically
- Exercise 1: Managing User Profiles
- Exercise 2: Working with User Profiles Programmatically

MODULE 13: DEVELOPING CONTENT MANAGEMENT SOLUTIONS

This module describes how to develop code that uses the content management services of the SharePoint 2010 development platform.

Lessons

- Lesson 1: Developing Enterprise Content Management Solutions
- Lesson 2: Developing Web Content Management Solutions

Lab: Branding SharePoint Sites

- Exercise 1: Customizing Master Pages
- Exercise 2: Applying a Theme to a SharePoint Site