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# Computer Visions Course Outline

## **Get What You Want**

We offer highly customizable group training courses: desktop applications, web development, networking & operating systems, technical certification, professional development & skills, help desk.

## **Get It When & Where You Want It**

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## **Corporate Training Solutions**

Corporations look to us to train their employees. Why? Because our proven training methods have increased employee proficiency and productivity. We assign one person to each of our corporate clients to ensure quality service, and we also offer extranet Web registration, management, reporting and billing for all clients. Simplicity, quality and outstanding service are our hallmarks.

## **Consulting Solutions**

Consulting is about trust,

## **10175A: Microsoft SharePoint 2010, Application Development**

### **Description:**

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

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.

### **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

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Need space and equipment to conduct specialized presentations or classes? We can help. With our world class classrooms and state of the art projection and presentation equipment, we take care of the details so you can have a successful presentation.

#### 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  
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

## **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