



# Developing Web Applications with Microsoft Visual Studio 2010

## Overview

In this course, students will learn to develop advanced ASP.NET MVC and Web Forms applications using .NET Framework 4 tools and technologies. ASP.NET MVC will be introduced and compared with Web Forms so that students know when each should/could be used.

## Prerequisites

In addition to their professional Web development experience, students who attend this training should have the following technical knowledge:

- An understanding of the problem-solving techniques that apply to software development, including the following principles of software development:
- A basic understanding of Web, Macro, and Windows scripting techniques and some hands-on experience writing scripts:
- A general understanding of the purpose, function, and features of .NET Framework
- Experience using Visual Studio 2008
- Experience in object oriented design and development
- Experience in N-Tier application design and development

## วิทยากรอบรม

- อาจารย์ไอบสิน เสริมสุขธีอนุวัฒน์



#### ระยะเวลาอบรม

- 20 ชม./3 วัน

#### ราคาคอร์สอบรม

- 8,500 บาท (ราคานี้ยังไม่รวมภาษีมูลค่าเพิ่ม 7 %)

#### รายละเอียดคอร์สอบรม

##### Lesson 1: Overview of Web Application Design

- Overview of IIS 7.0
- Overview of ASP.NET 4.0
- Introduction to the MVC Framework
- Overview of the Request Life Cycle
- Lab : Exploring the Adventure Works
- Web Site

##### Lesson 2: Designing a Web Application

- Web Applications: Case Studies
- Web Application Design Essentials
- Guidelines for Determining When to
- Use Web Forms and MVC
- Visual Studio 2010 Tools and
- Technologies for Web Application Design
- Lab : Redesigning the Adventure
- Works Web site

##### Lesson 3: Developing MVC Models

- Exploring Ways to Create MVC
- Models



- Creating a Data Repository
- Lab : Developing MVC Models

#### **Lesson 4: Developing MVC Controllers**

- Implementing MVC Controllers
- Creating Action Methods
- Lab : Developing MVC Controllers

#### **Lesson 5: Developing MVC Views**

- Implementing MVC Views
- Implementing Strongly-Typed MVC Views
- Implementing Partial MVC Views
- Lab : Developing MVC Views

#### **Lesson 6: Designing for Discoverability**

- Overview of Search Engine
- Optimization
- Creating the Robots and Sitemap Files
- Using ASP.NET Routing
- Lab : Designing for Discoverability

#### **Lesson 7: Writing Server-Side Code for Web Forms**

- Overview of the Structure of a Web Application
- Controlling ViewState
- Localizing a Web Application
- Persisting Data on a Web Forms Page
- Validating User Input
- Lab : Writing Server-Side Code for
- Web Forms

#### **Lesson 8: Optimizing Data Management for Web Forms**



- Managing Data by Using LINQ to Entities
- Using Data Source Controls
- Using ASP.NET Dynamic Data
- Lab : Optimizing Data
- Management for Web Forms

#### **Lesson 9: Ensuring Quality by Debugging, Unit Testing, and Refactoring**

- Debugging and Refactoring Code
- Unit Testing Code
- Processing Unhandled Exceptions
- Test Driven Development
- Lab : Debugging, Unit Testing and Refactoring

#### **Lesson 10: Securing a Web Application**

- Configuring Authentication
- Configuring ASP.NET Membership
- Managing Authorization by Using
- ASP.NET Roles
- Lab : Securing a Web Application

#### **Lesson 11: Applying Master Pages and CSS**

- Applying Master Pages
- Applying CSS, Skins, and Themes
- Lab : Applying Master Pages and CSS

#### **Lesson 12: Developing Client Side Scripts and Services**

- Developing Client-Side Scripts Implementing AJAX
- Creating Services
- Lab : Developing Client Side
- Scripts and Services



### **Lesson 13: Implementing Advanced AJAX in a Web Application**

- Implementing Ajax in ASP.NET
- MVC Pages Using Microsoft Ajax
- Implementing Ajax in ASP.NET
- MVC Pages Using jQuery
- Working With jQuery and Ajax
- Events
- Lab : Implementing Advanced Ajax for the AdventureWorks web application

### **Lesson 14: Deploying a Web Application**

- Overview of Web Application Deployments
- Overview of Web Site Deployments
- Deploying AdventureWorks
- Lab : Deploying AdventureWorks

### **Lesson 15: Developing a Web Application by Using Silverlight**

- Introduction to Rich Internet Applications
- Overview of Silverlight
- Creating a Silverlight Application
- Lab : Developing a Web Application by Using Silverlight