



## ASP.NET with Visual Studio 2008

*Five Days: Instructor Led*

### Course Objective:

This course is designed to give developers a solid grounding in Microsoft's latest version of ASP.NET technology. Specifically, this course will cover the following concepts:

- › **Core concepts** of ASP.NET 3.5 – the fundamental principles, ASP.NET controls, ASP.NET page creation, and security.
- › **Data access** – the fundamentals of ADO.NET, how to perform data binding to many sources (from databases to file streams). Coverage of LINQ.
- › **Web services** – creating web forms, ASP.NET AJAX, and contemporary web development techniques.

### Prerequisites:

This course is designed as the “next step” for students who have completed one of our “core programming” classes using Visual Studio 2008 (either VB or C#).

## Outline

### Chapter 1 - Overview of ASP.NET

Introduction to HTTP-Based Development

The Post-Back Process

Using HTTP Forms and Intrinsic Controls

Creating HTML Forms

The ASP.NET Page Model

Page Lifecycle

Page Events

Server Controls

Writing Code for the Page Event Model and Lifecycle



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## **Chapter 2 - Creating Web Forms**

- Controls and AutoPostBack
- ASP.NET Server Controls
- Saving Data in ViewState
- Page.IsPostBack
- Coding for Controls
- Cross-Form PostBack
- Creating Rich Web User Interface
  - Using ASP.NET AJAX
  - Introduction to JQuery
  - Introduction to Microsoft Silverlight

## **Chapter 3 - Validating Input**

- The ASP.NET Validation Controls
  - Validating on the Client
  - Validating on the Server
  - Custom Validation Using the Custom Validation Control
- Manual Validation

## **Chapter 4 - State Management**

- Introduction to State Management
- State Management Techniques
  - HTTP Cookies
  - ViewState
  - Session
  - Application
  - Cache
  - The ASP.NET Profile Provider

## **Chapter 5 - Accessing Data using ADO.NET and LINQ**

- Overview of ADO.NET in Web Applications
  - The Connected Model
  - The Disconnected Model
- Declarative Data Access
  - Using Data Binding
  - Advanced Data Controls
    - Using Datasource Controls
    - Using Template and Databound Controls
- Using Datasets for Object Data Access
  - Constructing Datasets
  - Using the TableAdapter Object
- Using LINQ To SQL and the Entity Framework
  - Describing your Domain Model



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Using LINQ with Data Controls

## **Chapter 6 - Master Pages and User Controls**

- Creating Master Pages
- Applying Master Pages to ASP.NET Forms
  - Creating Master Content
  - Creating Code in Master Pages
- Creating User Controls
  - Creating Properties / Methods / Events in User Controls

## **Chapter 7 - ASP.NET Security**

- Authenticating Users
  - Windows Authentication
  - Forms Authentication with the ASP.NET Provider
- Authorizing Users
  - Declarative Access Control
  - Using the IPrincipal Object
- Integrating Security Information with ASP.NET Profiles

## **Chapter 8 - Configuring, Debugging, and Instrumenting and Deploying Pages**

- Web.Config
- Debugging ASP.NET
- Tracing
- Deploying ASP.NET Applications
  - XCopy Deployment
  - The Auto-Compilation Model
  - Publishing an ASP.NET Website