

1-800-ROI-9877

[www.trainingbyROI.com](http://www.trainingbyROI.com)

---

## **Course 463: ASP.NET 2.0 Programming with Visual Studio .NET 2005 (5 days)**

### **Course Description...**

With the release of ASP.NET 1.0 developers were provided with an object-oriented environment that allowed dynamic Web applications to be created quickly and easily. The ASP.NET 2.0 Programming with Visual Studio .NET 2005 builds upon the solid foundation provided by ASP.NET 1.0 and introduces new technologies that minimize coding and maximize productivity.

The course starts by providing students with a hands-on look at new features included in ASP.NET and Visual Studio .NET 2005. Topics such as code refactoring, code snippets and visualizer debuggers are discussed. Students are then provided with an in-depth look at new ASP.NET 2.0 features including new server controls, validation group techniques, master pages and themes, personalization, membership and role providers, site navigation features and data source controls. Additional topics covered include RSS and XML feed integration and building personalized portals with Web Parts.

### **Why to take this course...**

This course provides a comprehensive look at the different technologies that can be used to create ASP.NET 2.0 applications using VB.NET or C#. If you're interested in learning how to use new ASP.NET 2.0 features to minimize coding and maximize productivity then this course is for you!

### **You will learn...**

- New features in ASP.NET 2.0
- Productivity enhancements found in Visual Studio .NET 2005
- How to use Server Controls and User Controls in Web Forms
- End user data validation with validation groups
- The role events play in ASP.NET applications
- Data binding and database integration with ADO.NET
- How to minimize coding with data source controls
- N-Tier/N-Layer ASP.NET application architecture
- How to display and edit data using the GridView
- How the XmlDataSource control can display XML and RSS feeds
- The ins and outs of Web Services
- ASP.NET Membership and Role providers
- New site navigation features
- Creating portal applications with Web Parts



## Prerequisites...

It is recommended that attendees take the C# 2.0 Programming with Visual Studio .NET 2005 or VB.NET 2.0 Programming with Visual Studio .NET 2005 course prior to taking this course. Previous experience with PHP, ASP or ASP.NET 1.0 is highly recommended.

## Course Outline...

1. Introduction to ASP.NET 2.0
  - a. Introduction to the .NET Framework
  - b. Creating ASP.NET Websites
  - c. Compiling ASP.NET Applications
  - d. Configuring ASP.NET Applications
  - e. ASP.NET Application Architecture
2. Visual Studio .NET 2005 Features
  - a. Code Refactoring
  - b. Code snippets
  - c. Visualizer debuggers
  - d. Web deployment tools
  - e. Much more!
3. ASP.NET Web Forms
  - a. ASP.NET Web Form Features
  - b. Page Directive and Attributes
  - c. The Role of the Page Class
  - d. Tracing and the Page Lifecycle
  - e. Code Separation
4. Using ASP.NET 2.0 Server Controls
  - a. ASP.NET Controls
  - b. Web Server Controls
  - c. Setting Defaults
  - d. Cross Page Postbacks
  - e. Validation Controls
  - f. Validation Groups
  - g. User Controls
5. Data Access with ADO.NET
  - a. What is ADO.NET?
  - b. ADO.NET Classes
  - c. Storing Connection Strings
  - d. Working with ADO.NET Classes
  - e. Data Binding
6. Data Source Controls
  - a. Data Binding in ASP.NET
  - b. Data Binding Expressions
  - c. Data Source Controls
  - d. SqlDataSource Control
  - e. XmlDataSource Control
  - f. ObjectDataSource Control



7. Master Pages
  - a. What are Master Pages?
  - b. Creating Master Pages
  - c. Creating Content Pages
  - d. Nesting Master Pages
  - e. Accessing and Changing Master Pages
8. Profiles and Themes
  - a. What are Profiles?
  - b. Configuring Profiles
  - c. Creating Custom Profiles
  - d. Using the Profile API
  - e. What are Themes?
  - f. Creating Themes and Skins
  - g. Assigning Themes
  - h. Changing Themes
9. Site Navigation Controls
  - a. Site Navigation in ASP.NET
  - b. Creating a web.sitemap File
  - c. Configuring Site Map Providers
  - d. Site Map Navigation Controls
  - e. URL Remapping
10. State Management
  - a. Managing State in ASP.NET
  - b. Session State
  - c. View State
  - d. Cache API
  - e. Caching SQL Server 2000/2005 Data
11. Security Configuration and Controls
  - a. Introduction to Security in ASP.NET
  - b. Forms Authentication
  - c. Windows Authentication
  - d. Membership Provider
  - e. Role Management
  - f. Security Server Controls
12. Working with Web Parts
  - a. Introduction to Web Part Pages
  - b. The WebPartManager Control
  - c. Web Part Zones
  - d. Web Parts
  - e. Editor Zones and Parts
  - f. Catalog Zones and Parts
13. Creating and Consuming Web Services
  - a. What Is a Web Service?
  - b. Web Service Architecture
  - c. Exposing Methods as a Web Service
  - d. Consuming a Web Service