

Project based VB.NET 2010 & ASP.Net 4.0 Training (Lahore)

**We Assure the Total Success of Every Student
with Unbeatable Guarantees that Other Companies Can't Touch**

Building Windows and Web (VB.NET, ASP.Net) Applications class will teach developers and Students the VB.NET, ASP.Net, ADO.NET, XML and Visual Studio .NET 2010 skills they need to successfully build Windows, Web applications and services.

Training Objectives

This intensive and **purely practical based** course has been specifically designed to address the requirements of developers and students who are new to the .NET environment with a comprehensive introduction to creating typical commercial windows and web applications within the Visual Studio.NET 2010 & framework 4.0 using VB.NET & ASP.Net.

Prerequisite Skills

Candidates should have programming experience and ideally a background of an Object Based or Object Oriented Languages e.g. C++, Java.

Who Should Attend?

Programmers look to learn the VB.NET language (C# option is also available) to develop commercial Windows, web applications & services and ASP.NET and client-side applications.

What You Will Learn To Do

- Utilize Visual Studio .NET 2010 to develop and debug applications.
- Understand the role of the Common Language Runtime (CLR).
- Understand Object Oriented Programming in the .NET languages.
- Develop Console applications.
- Use WinForms to develop Windows applications.
- Use WebForms to develop ASP.NET server side Applications.
- Create Web and Window Services.

Chance to work on Real Time Projects

It's not just a theory and explanation course, we take you through real projects which give you real experience of working on projects.

Hands on Exercises

The course will contain a substantial amount of Hands-On work. Candidates will be introduced to topics during theory sessions and these will be followed by Lab exercises relating.

Training Outline

- **Microsoft .NET Framework**
 - What is the .NET Framework?
 - The .NET Framework Architecture
 - Common Language Runtime,
 - .NET Framework Standard Libraries
 - Microsoft Intermediate Language (MSIL)
 - Assemblies (private, shared, native) and the Global
 - Assembly Cache (GAC)
 - The .NET Framework Languages
 - Comparison of VB.NET, C#, and J#
 - The .NET Framework Applications
 - Windows applications
 - Windows services
 - ASP.NET Web applications and services
 - Command-line programs
 - Reusable assemblies
 - SQL Server Stored Procedures, functions and user-defined types
- **Language Fundamentals**
 - Program structure and statements
 - Data types, identifiers, and operators
 - Comments, XML comments
 - Branching and iteration
 - Working with strings
 - Arrays, structures, and enumerations
 - Classes and namespaces, objects
 - Inheritance, overloading, overriding
 - Interfaces
 - Exceptions
 - Generics, partial types, anonymous methods, and iterators
 - Refactoring code by using refactoring features
 - Using **My** classes to access system and application resources (VB.NET)
- **Windows Forms Fundamentals**
 - The System.Windows.Forms namespace
 - Working with the Windows Forms Designer
 - Working with properties (using and creating)
 - Event Handling (understanding events and delegates)
 - Visual Inheritance
- **Windows Forms Controls**
 - Adding controls to a form
 - Control properties and methods
 - Handling control events
 - Form Layout (FlowLayoutPanel and TableLayoutPanel)
 - Creating menus and menu items
 - Windows user interface design guidelines
- **Error Handling**
 - User input validation and the data validation controls
 - Managing errors in an application

- The try, catch, finally, and throw keywords
- The .NET Framework exception handling guidelines
- **Reusable Components**
 - Custom User controls, extending existing controls
 - Creating custom events
 - Single-file and multi-file assemblies
 - Private and shared assemblies, Global assembly cache
 - Deployment considerations
 - Using COM Components
- **Working with Data (with a focus on SQL Server and XML)**
 - Connecting to relational databases
 - SqlConnection, SqlCommand, and SqlDataAdapter classes
 - Parameterized SQL Statements
 - Invoking Stored Procedures, input and output parameters
 - Working with DataSet, DataTable, DataRow objects
 - DataSet with multiple active results
 - Strongly typed datasets
 - Understanding XML data
 - Creating XML Schema
 - Query and update XML data by using XmlDocument
 - Crystal Reports/Active Reports
- **Data Binding**
 - Create databound forms using the RAD data binding features.
 - Generating Master-Detail forms using Visual Studio .NET
 - SmartTags
 - GridView control
- **File Systems**
 - Files and directories
 - Binary and text files
 - Working with streams
- **Windows Services**
 - Service application programming architecture
 - Creating Windows services
- **Web Services**
 - Web services basics
 - Using Web services
 - Creating Web services
- **Tracing and Debugging**
 - Tracing, trace switches
 - Debugging techniques, stepping through the programs
- **Windows Forms Security**
 - Securing applications
 - Securing files and data access
 - Security guidelines and best practices
- **Deployment and Configuration**
 - ClickOnce Deployment
 - Creating setup projects
 - Configuring applications to handle version upgrades and service packs

- **ASP.Net**
 - Introduction
 - ASP.NET Web Applications
 - Rendering HTML with Server Controls
 - Data Binding in ASP.NET
 - New Features in ASP.NET
 - Designer Features
 - Deployment and Configuration Tools
 - Increasing Productivity
 - Working With Controls
 - Configuration
 - Validation
 - Themes and Master Pages
 - Site Navigation
 - Display Data with GridView and DataList
 - State Management
 - Debugging SQL Server Code
 - Tracing
 - Custom Controls

Project:

Candidates have to complete two or more projects during the whole training session.

Projects Detail

- Any Database Application (Windows or Web)
- Database Manipulation Tools
- Code Generation Tools
- Database Independent data Synchronization Tools
- Distributed Application Development
- SMS Server (SMS based auto responder or booking system or doctor's appointment via SMS)
- Application Framework Development
- Application Security Management
- Application Licensing Management
- Data Extraction Tools

Note: Project Will Start after 2nd Class of Course

Duration

Minimum 2 months with at least 6 to 8 hours per week

Batch Start

13th January 2012 Friday 6:00: PM

Trainer

Muhammad Dawood Aziz
(7+ Year .Net Experience)
Development Lead (.Net)

Fee

Tortal fee = 15,000

Contact

If you have any questions about this training program, please do contact us at
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Note : Placement Assistance will be provided for right candidates.