ASP.NET Development

By: PDSA, Inc. and KNG Consulting, Inc.

This course is designed for programmers that wish to learn how to create a web application using ASP.NET. You will learn how to create web applications using web forms, server side controls, and web services. You will learn to use good coding practices such as industry accepted naming standards, indentation and code reusability. Throughout this course you will be guided through developing a real-world business application for the web. If you need to learn how to put together a web application the right way, this course is for you.

Prerequisites

The student attending this course should be a programmer in some language (Visual Basic preferably) and have a basic knowledge of HTML. No knowledge of Microsoft.NET is required.

Length

5 days for hands on.

What You Will Learn

How to use Visual Studio.NET	How to create web forms.
How to use validation controls	How to use server-side controls
How to create database applications on the web	How to manage state and scalability in a web application.
How to create web user controls	How to create a web service
How to consume web services	How to program for mobile devices

If you need answers to these questions; take this course.

What is Microsoft.NET?	What is ASP.NET?
What is a Web Form?	What is a Web Service?
How do I program a server-side control?	How do I debug my web applications?
How do I manage the scalability of a large web site?	How to I manage the web development process?

Part I - Introduction to Microsoft .NET and ASP.NET

Tour of a Web Application
Introduction to .NET
Introduction to Visual Studio.NET

Overview of the .NET Framework
Internet Programming
Introduction to ASP.NET
Introduction to the VB.NET Language
Using the Validation Controls
Debugging a Web Application

Part II - Data Handling
Introduction to ADO.NET
Data Binding on Web Forms
Error Handling
Creating connections and commands
Working with Data
ADO.NET and Stored Procedures
Using the DataGrid Control
Editing data using the DataGrid
Using the Repeater Control
Using the DataList Control

Part III - Web Development Techniques
Using Crystal Reports
Creating Web User Controls
ASP.NET Controls
State Management in ASP.NET
Security in Web Applications
Programming for Mobile Devices
The Development and Deployment of Web Applications

Part IV - Web Services
Introduction to and Usage of XML in .NET
Overview of Web Services
Creating and Consuming Web Services
Asynchronous Web Services
Securing Web Services