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VB.Net - Introduction/Intermediate

Duration: 3 Days

Overview:

On Aspect Training's VB.Net Introduction/Intermediate training course, students use Visual Studio to explore the Visual Basic language. The course starts with a quick overview of the .NET platform, examining assemblies, Microsoft Intermediate Language, Visual Studio profiles, XML comments, IntelliSense, and debugging. From there, you will learn all the Visual Basic language features that you must understand in order to create full-featured Web or Windows applications that make best use of the .NET platform.

You will learn about data types, variables, and operators, along with all the important flow control structures. You'll work through several examples demonstrating the power of the .NET Framework, and dig into creating and consuming your own classes and objects. The course moves on to working with data structures, such as arrays and collection classes, before finishing up with discussions of generics, handling exceptions and working with delegates and events. By the end of this course, you will understand the important basic concepts that will allow you to start creating .NET applications.

Important Note: Specific units can be selected from this course and combined with units from our other VB.NET courses to create a customized course for your group. Please contact us for details.

Prerequisites:

Some prior programming experience is required for this course. It can be presented for non-programmers but we would recommend allowing 4 days.

Continued over....

Course Topics:



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Getting Started with .NET

Thinking about .NET
Using Visual Studio 2008
Debugging Your Code and Handling Exceptions

Data Types and Variables

Introducing Variables and Data Types
Working with Variables and Data Types

Using the .NET Framework

Using the .NET Framework Classes
Working with Strings
Working with Dates and Times
The My Namespace

Branching and Flow Control

Conditional Branching
Repeating Code Blocks
Unconditional Branching

Classes and Objects

Introducing Classes and Objects
Working with Classes

Properties and Methods

Working with Properties
Working with Methods

Working with Arrays

Introducing Arrays
Manipulating Arrays

Generics

Introduction Generics
Generics and Arrays
Generic Interfaces
Generic Constraints
Generics and Lists

Handling Exceptions

Perspectives and Exception Handling
Getting Started with Exception Handling
Catching Specific Exceptions
Raising Errors
Running Code Unconditionally
Creating Exception Classes

Collection Classes

Generics, Collections, and Interfaces
The Generic List
Working with Dictionaries, Stacks, and Queues
Creating Your Own Generic Collection Classes

Core .NET 3.5 Language Changes

The Role of Implicitly Typed Local Variables
The Role of Extension Methods
Object Initialization Syntax
The Role of Anonymous Types
The Role of Lambda Expressions

Object-Oriented Techniques

Creating Your Own Classes
Inheritance
Interfaces
Organizing Classes

Delegates and Events

Motivating Delegates
Introducing Delegates
Working with Events