



## Aspect Training

Telephone: [0208 942 5724](tel:02089425724)

Email: [info@aspecttraining.co.uk](mailto:info@aspecttraining.co.uk)

YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

# VB.NET Introduction / Intermediate

**Duration: 5 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 useful for this course, but not essential.

---

### Topics:

#### 1 - Getting Started with .NET

Thinking about .NET

Using Visual Studio 2008

Debugging Your Code and Handling Exceptions

#### 2 - Data Types and Variables

Introducing Variables and Data Types

Working with Variables and Data Types

#### 3 - Using the .NET Framework

Using the .NET Framework Classes

Working with Strings

Working with Dates and Times

The My Namespace

## **4 - Branching and Flow Control**

Conditional Branching

Repeating Code Blocks

Unconditional Branching

## **5 - Classes and Objects**

Introducing Classes and Objects

Working with Classes

## **6 - Properties and Methods**

Working with Properties

Working with Methods

## **7 - Working with Arrays**

Introducing Arrays

Manipulating Arrays

## **8 - Generics**

Introduction Generics

Generics and Arrays

Generic Interfaces

Generic Constraints

Generics and Lists

## **9 - Handling Exceptions**

Perspectives and Exception Handling

Getting Started with Exception Handling

Catching Specific Exceptions

Raising Errors

Running Code Unconditionally

Creating Exception Classes

## **10 - Collection Classes**

Generics, Collections, and Interfaces

The Generic List

Working with Dictionaries, Stacks, and Queues

Creating Your Own Generic Collection Classes

## **11 - Core .NET Language Techniques**

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

## **12 - Object-Oriented Techniques**

Creating Your Own Classes

Inheritance

Interfaces

Organizing Classes

## **13 - Delegates and Events**

Motivating Delegates

Introducing Delegates

Working with Events