



VB.NET:

VB.NET is an object-oriented language, which supports the abstraction, encapsulation, inheritance, and polymorphism features. It's the foremost productive tool for rapidly creating a wide range of Windows, Web, Mobile, and Office applications built on the .NET Framework.

The Visual Basic language is meant to be human readable and accessible to everyone from novice programmers to advanced system architects. All of this often built on top of the .NET Framework, which guarantees that programs written in Visual Basic run with unsurpassed scalability and reliability. The .NET Framework provides VB.Net programmers with the power to make fully object oriented programs (OOPs), like those created using Java, C# or C++. Also programs written in VB.Net will interoperate seamlessly with programs written in any other .NET languages such as Visual C#, Visual J#, or Visual C++.

VB.NET can be used to create a wide range of applications and components, including the following:

- Windows console mode applications
- Standard Windows applications
- Windows services
- Windows controls and Windows control libraries
- Web (ASP.NET) applications
- Web services
- Web controls and web control libraries



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- .NET classes and namespaces
- Accessing application object models (such as those of the individual applications within the Microsoft Office suite) using COM automation

Advantages of VB.NET:

- Codes are going to be formatted automatically.
- Use object-oriented constructs to make an enterprise-class code.
- Can create web applications with modern features like performance counters, event logs, and filing system.
- Can create your web forms with much ease through the visual forms designer. You'll also enjoy drag and drop capability to replace any elements that you simply may have.
- Can connect your applications to other applications created in languages that run on the .NET framework.
- Enjoy features like docking, automatic control anchoring, and in-place menu editor all good for developing web applications.

Course Content:

Overview of Microsoft .NET:

- Drawbacks of the existing system
- Why .NET came into picture
- .Net Framework Architecture



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- Components in .Net Framework
- Basic Functionality of CLR
- MSIL, CLS, CTS in brief
- .Net Languages
- Versions of .Net Framework

Basic Introduction of Visual Basic .NET and OOPS:

- Operators
- Conditional Statements and Loops in VB.NET
- Arrays
- Data Types in VB.NET
- Boxing and UnBoxing
- Sub Programs
- OOPS Concepts

More on VB.NET Language Constructs Class:

- Member Functions and Data Members
- Access Specifiers
- Properties



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- Method Overloading
- Constructors
- Shared Modifier

Working with Classes

Inheritance in VB.NET:

- Types of Inheritance
- Interfaces
- Abstract Classes
- Overloading and Overriding
- Polymorphism
- Sealed Classes

Exception Handling:

- What is Exception?
- Using Try, Catch and finally in our programs
- Defining our own exceptions
- Debugging the Application



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Data Access with ADO .NET:

- Introduction to Data Access Libraries
- ADO .NET managed data providers
- using System.Data.OleDb namespace
- Connected Architecture using Data Reader
- Disconnected Architecture using Data Adapter and Dataset
- Invoking the Stored Procedures

Windows Programming:

- Using Various GUI Controls

Multithreading

Delegates and Events

Distributed Application Development:

- Remoting Architecture
- Hands-on Remoting



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Managed Code and Unmanaged code:

- Using Runtime Callable Wrapper (RCW)
- Using COM Callable Wrapper (CCW)

Miscellaneous

Our learning methods include:

- Comprehensive course selection of Instructor-Led Training
- Logistical convenience and interactive classroom experience of Online Training
- Flexible pacing and instructor-guided support of Mentored Learning
- Self-paced convenience of Online ANYTIME

In addition:

- Interview preparation with mock interview drills
- Effective resume building
- Process of applying jobs at the right places



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