

## VB.NET 2003 Syllabus

### Course Details:

- Duration: 27 Days (3 Hours Daily).
- Certificates: MCP.
- Exams: 70-536.

### The VB.NET Certification

- MCP: Microsoft Certified Professional.

## VB.NET 2003 Syllabus

**Video 0:** MCTS Overview and Course Syllabus (8 minutes).

- Overview of Certifications.
- Visual Basic.NET 2003 Syllabus.
- Installing Visual Studio.NET 2005.

**Video 1:** Introducing VB.NET (3 minutes).

- Visual Studio.NET.
- .NET Framework.
- Visual Basic.NET.

**Video 2:** Using Comments, Defining Variables and Introducing Data Types (33 minutes).

- Inserting Comments in VB.NET.
- Defining Variables.
- Dealing with Data Types in VB.NET.

**Video 3:** Managing Input and Output - Part 1 (20 minutes).

- Defining Namespaces and Using System Namespace.
- Using the Console Class in VB.NET.
- Using the Output Methods in VB.NET.
- Dealing with Text and Numeric Formatting.
- Using Escape Sequences.

**Video 4:** Managing Input and Output - Part 2 (13 minutes).

- Using Input Methods.
- Dealing with Conversion Types.

**Video 5:** Using The MessageBox Class (5 minutes).

- Understanding the Arguments of the MessageBox Class.
- Using the MessageBox Class with Console Application.
- Using the MsgBox Class.

**Video 6:** Handling Expressions and Operators in VB.NET (14 minutes).

- Understanding Mathematical Expressions.
- Understanding Logical Expressions.

**Video 7:** Introducing If Statements (20 minutes).

- Using the IF/Then Selection Structures.
- Using the IF/Then/Else Selection Structures.
- Using the Multiple Selection Structures.
- Using the Select Case.

**Video 8:** Introducing Iteration Statements (13 minutes).

- Using While Repetition Structure.
- Handling the Do/While/Loop Repetition Structure.
- Introducing Do/Until/Loop Repetition Structure.
- Using the Do/Loop While Repetition Structure.
- Using the Do/Loop Until Repetition Structure.
- Using the For/Next Repetition Structure.

**Video 9:** Introducing Jump Statements (7 minutes).

- Using the Exit Statement.
- Using the GoTo Statement.
- Using the Continue Statement.

**Video 10:** Dealing with Modules and Procedures-Part1 (21 minutes).

- Defining and Managing Modules.
- Dealing with Access Modifiers.
- Introducing Sub Procedures.
- Introducing Function Procedures.
- Understanding Block Scope and Module Scope.
- Dealing with Static Variables.

**Video 11:** Dealing with Modules and Procedures-Part2 (24 minutes).

- Understanding Procedure Calling.
- Passing Arguments.
- Understanding the Concept of Optional Arguments.
- Handling the Recursion Concept.
- Handling the Procedure Overloading Concept.

**Video 12:** Handling Value Types (9 minutes).

- Understanding the Structure Concept.
- Using the Enumeration Concept.

**Video 13:** Working with Classes and Methods-Part1 (17 minutes).

- Introduction to Classes.
- Understanding Built-In Classes.
- Creating User-Defined Classes.
- Understanding Constructors and Instance Variables.

**Video 14:** Working with Classes and Methods-Part2 (11 minutes).

- Understanding and Using Properties.
- Using the Concept of Based and Derived Classes.

**Video 15:** Handling Reference Types (12 minutes).

- Handling and Using Interfaces.
- Understanding Delegates.

**Video 16:** Presenting Arrays-Part1 (17 minutes).

- Introduction to the Concept of Arrays.
- Declaring a 1-Dim Array and Initializing the Values.
- Printing and Summing the Elements of a 1-Dim Array.
- Declaring a 2-Dim Array and Initializing the Values.
- Printing and Summing the Elements of a 2-Dim Array.

**Video 17:** Presenting Arrays-Part2 (8 minutes).

- Understanding the Concept of Jagged Arrays.
- Using the Array Class.
- Using the For Each /Next Repetition Structure.

**Video 18:** Learning Error Types in VB.NET (14 minutes).

- Introduction to Error Types.
- Understanding Syntax Errors.
- Understanding Runtime Errors and Using Exception Handling.
- Understanding Logical Errors and Using Break Points.

**Video 19:** Dealing with Class Libraries (7 minutes).

- Class Library Overview.
- Creating a Class Library.
- Working with the Class Library.