
Introduction to Visual Basic.NET programming with VS.NET

Duration: 5 Days **Course Code: M2559**

Overview:

This five-day instructor led course provides students with the knowledge and skills needed to develop applications in Microsoft® Visual Basic® .NET for the Microsoft .NET platform. The course focuses on user interfaces, program structure, language syntax, and implementation details. This is the first course in the Visual Basic .NET curriculum and will serve as the entry point for other .NET courses.

Target Audience:

This course is intended for both novice and experienced programmers who have a minimum of three months programming experience and have basic Microsoft Windows navigation skills.

Objectives:

- Create a simple Visual Basic .NET-based application based on the Windows Application template.
 - Use forms and controls to create a user interface.
 - Create and use variables and arrays.
 - Create and use Sub, Function, and Property procedures.
 - Implement decision structures and loops by using conditional expressions.
 - Resolve syntax, run-time, and logic errors by using the debugger and structured exception handling.
 - Validate user input for fields, controls, and forms.
 - Enhance the user interface by adding menus, status bars, and toolbars.
 - Create a simple Visual Basic .NET-based Web Forms application that uses an XML Web Service.
 - Apply object-oriented programming techniques to create classes, add methods, and add properties.
 - Access and manipulate data in a Microsoft Access database by using ADO.NET.
 - Build, package, and deploy an application.
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Prerequisites:

Delegates are required to meet the following prerequisites:

- Understanding of the basics of structured programming, including concepts such as flow control, variables and parameters, and function calls
- OR
- Completion of M1587, Introduction to Programming with Microsoft Visual Basic 6.
- And
- Experience (at least 3 months) with developing applications in either a graphical or non-graphical environment.

Testing and Certification:

- There is currently no Microsoft Certified Professional exam associated with this course.
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Content:

- Getting Started
- Basic .NET Concepts
- Exploring the Development Environment
- Creating a Visual Basic .NET Project
- Working with Forms and Controls
- Understanding Programming Concepts
- Working with Windows Forms
- Working with Controls
- Styling Your Code
- Using Variables and Arrays
- Introduction to Data Types
- Using Variables
- Variable Scope
- Converting Data Types
- Creating and Using Structures
- Storing Data in ArraysWorking with Procedures
- Creating Procedures
- Using ProceduresUsing Predefined Functions
- Decision Structures and Loops
- Using Conditional Expressions
- Using Decision Structures
- Using Conditional Loop Structures
- Enhancing the User Interface
- Creating Menus
- Creating Status Bars
- Creating Toolbars
- Web Forms and XML Web Services
- Working with Web Forms
- Using XML Web Services
- Object-Oriented Programming Concepts in Visual Basic .NET
- Understanding Classes
- Working with Classes
- Using Shared Members
- Inheritance, Polymorphism, and Namespaces
- Working with Forms and Controls
- Introduction to Deployment
- Deploying a Windows-based ApplicationHandling Errors and Exceptions
- Types of Errors
- Using the Debugger
- Handling Exceptions
- Validating User Input
- Restricting User Input
- Validating Field Data
- Validating Form DataDeploying Applications
- Introduction to Deployment
- Deploying a Windows-based ApplicationUsing ADO .NET
- Database Concepts
- Overview of ADO.NET
- Working with Data

Further Information:

For More information, or to book your course, please call us on +20 2 2290 2163/2148

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