

Programming Windows Application

Course Description

In this Course you will learn how to building interactive windows form applications using the .NET framework. You'll learn the essentials of the framework using either C# or VB.NET - with examples and exercises provided in both - and get an enhancement on Windows form development.

Course Level

Intermediate

Who should attend?

.NET Developer who want to create the Windows Based Application using Visual Studio 2005 and Support Microsoft Exam 526

Pre-requisites

Basic understanding of Programming .NET Application and database access using ADO.NET

Course Objectives

- Configure Windows Forms
- manage layout of the user interface
- Create lists, buttons, tool strips, and menus
- Set up and manage connections to databases
- Implement data-bound controls
- Read, validate, and write XML
- Manage the printing process with dialogs
- Enhance usability with drag-and-drop functionality
- Accessibility features, and user assistance controls
- Use ClickOnce to installation and deployment

Course Durations

18 Hours

Course Outline

1. Creating a Windows Forms Application

- Creating Windows Forms
- Add Controls to Windows Forms
- Create Event Handlers
- Create Event Handlers at Run Time

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- Create Windows Form

2. Configuring Standard Controls

- Controls to Use on Windows Forms
- Load Custom Information in TreeView
- Caching Information from Controls
- Create an HTML Document

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- Using Standard Windows Control

3. Building Menus

- Using the MenuStrip Control
- Create Event Handlers
- Using the ContextMenuStrip Component

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- Create Application Menu

4. Displaying and Editing Data

- Using Data Source Configuration Wizard
- Bind Controls on a Windows Form
- Configure the BindingNavigator Control
- Add Search Functionality
- Configure the DataGridView Control
- Binding to Data at Run Time

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- Data Access in Windows Form

5. Creating Consistent Applications

- Use Dialog Box Components
- Creating Custom Dialog Boxes
- Use Windows Forms Inheritance

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- Create Consistent Application

6. Building MDI Applications

- Create MDI Parent and Child Forms
- BaseChild Form
- Determine the Active MDI Child
- Implement Menu Merging

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- Create MDI Application

7. Printing Content and Creating Reports

- Windows Forms Print Support
- Preview Content Before Printing
- Choose Print and Page Setup Options
- Host and View a Crystal Report

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- Use Printing in Windows Form

8. Creating Customized Print Components

- Printing Form
- Printing Reports in Windows Forms
- Create a Method to Print Page Headers
- Choose Print and Page Setup Options

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Customize Printing Application

9. Provide Assistance and Usability

- Using StatusStrip Control
- Work with ToolTip, ErrorProvider, and HelpProvider Components
- Localize Windows Forms
- Display Errors in a Dataset

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- Using Help and Error Provider

10. Performing Asynchronous Tasks

- BackgroundWorker Component
- Execute a Background Operation
- Using Asynchronous Pattern
- Authoring a Multithreaded Component

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- Run Asynchronous Task

11. Performing Drag-and-Drop Operations

- Performing Drag-and-Drop Operations
- Control.DoDragDrop Method
- Use Clipboard as a Temporary Repository
- Add Data to the Clipboard
- Retrieve Data from the Clipboard

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- Using Drag and Drop

12. Customizing Forms and Controls

- Creating an Extended Control
- Stopwatch Form
- Provide a Toolbox Bitmap for a Control
- Property-Changed Events
- Create Nonrectangular Windows Forms
- Creating a Shaped Windows Form
- Create a Custom Renderer

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- Customize form and control

13. Deploying Applications Using ClickOnce

- Code Access Security for ClickOnce
- Publish a ClickOnce Application

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- Create ClickOnce Application

14. Enhancing the Presentation of Windows Forms Applications

- Using Advanced DataGridView Control
- TextRenderer Class
- Displaying Multiple Lines of Data
- Add Search Functionality
- FolderView User Control
- Create Application Settings
- Configure the PropertyGrid Control
- Author User Controls
- TreeView Control
- ImageList control

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- Enhance Presentation in Windows Form

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