

# Windows Forms Using Visual Basic (5 Days)

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## Windows Forms Using Visual Basic (CTI 425)

*This course is an introduction to GUI development using Windows Forms and C#. It covers database programming in Windows and new Windows Forms features such as new controls, new data binding, and ClickOnce deployment for creating smart client applications.*

Prerequisites: Experience programming the .NET Framework using Visual Basic.

Minimum software requirements: Microsoft Visual Studio 2005 and MSDN on Windows 2000 or XP. SQL Server 2005; IIS.

Minimum hardware requirements: Pentium PC running at 1GHz; 512 Mb RAM; 4 GB free hard disk space before installation; Internet access; machines must be networked.

Microsoft PowerPoint on instructor's workstation for presentation purposes.

### Module 1: Introduction to Windows Forms

- What are Windows Forms?
- Windows Forms Class Hierarchy
- Building a Form
- The Application Class
- Trapping Events
- Buttons
- Labels and Textbox Controls

### Module 2: Visual Studio and the Forms Designer

- Using the Forms Designer
- Code Generated by Forms Designer
- Adding Event Handlers
- Creating Attractive Forms
- Creating Easy to Use Forms

### Module 3: Using Controls

- Checkbox, Radio Button and Group Box
- Numeric Up/Down
- Trackbar
- Progress
- MonthCalendar
- DateTimePicker

### Module 4: List Controls

- Listbox and Combo Box
- DomainUpDown
- ListView
- Storing Objects in List Controls

### Module 5: Working with Dialogs

- Modal vs Modeless Dialogs
- Message Boxes
- Common Dialogs
- Creating a Modal Dialog
- Configuring the Dialog Result
- Access Data from the Dialog
- Validating Data
- Error Provider Control
- Model Dialogs
- Creating a Modeless Dialog

### Module 6: Menus, Toolbars and Status Bars

- Main Menus
- Context Menus
- Building a Status Bar
- Building a Toolbar
- Using the Timer Control

### Module 7: Advanced Windows Forms Topics

- Parent/Child Relationships
- Owner/Owned Relationships
- Top-Most Forms
- Multiple Document Interface
- Managing Parent/Child Menus
- Programming the Clipboard
- Visual Inheritance

### Module 8: Using Advanced Controls

- Panel
- TreeView
- Splitter
- Tab Control

### Module 9: Resources

- Image Resources
- Resource Files
- String Resources
- Working with Resources in Visual Studio
- Resource Managers
- Cultures and Internationalization
- Building Localizable Forms

## **Windows Forms Using Visual Basic (CTI 425) - continued**

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### **Module10: Applications and Settings**

- Application Class
- Processing and Filtering Windows Messages
- Application Lifetime and Events
- Configuration Files
- Windows Registry

### **Module11: Data Access and Data Binding**

- ADO.NET Overview
- .NET Data Providers
- Using DataReaders
- Data Sets
- Data Tables
- Data Views
- Data Binding
- Interacting with XML Data

### **Module12: Windows Forms in .NET 2.0**

- ToolStrip Control
- SplitContainer Control
- Web Browser Control
- DataGridView Control
- Other New .NET 2.0 Controls
- New Data Binding
- Application Settings
- BackgroundWorker Component
- ClickOnce Deployment

### **Appendix A. Learning Resources**