



## COMPLETE COMPUTING, INC.

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### ASP.NET using VB in Visual Studio 2005

*Five days, Instructor-led*

#### Introduction

Elements of this syllabus are subject to change

This five-day instructor-led course provides students with the skills required to build compelling Microsoft Windows Forms applications by using the Microsoft .NET 2.0 Framework.

#### Audience

This course is intended for the intermediate programmer who is responsible for designing and building Windows Forms-based applications using the .NET 2.0 Framework.

#### At Course Completion

After completing this course, students will understand how to:

- Create and populate Windows Forms (WinForms).
- Organize controls on WinForms.
- Create menus in a WinForms application.
- Create Multiple Document Interface (MDI) applications.
- Bind WinForm applications to various data sources by using ADO .NET 2.0.
- Print documents in a WinForm application.
- Debug a WinForm application.
- Create Help files in a WinForm application.
- Implement security in a WinForm application.
- **This class is designed to be relentlessly practical. You won't just learn about features, but you'll also learn about the real-world techniques that can take your website to the next level.**

#### Prerequisites

Before attending this course, students must have:

- Completion of *Programming with Visual Basic .NET 2.0 using Visual Studio 2005*
- Familiarity with Microsoft's .NET Framework and .NET strategy.
- Familiarity with ADO .NET 2.0 programming techniques.

#### Course Materials

The student kit includes a comprehensive and award-winning workbook and other necessary materials for this class.



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## Course Outline

### Part I – Getting stated with Windows Forms (WinForms)

- WinForms in Visual Basic 2005
- Adding and Arranging Controls
- Application Settings
- Showing Forms
  - Inherited Forms
  - Form Size and Location
  - Transparency
  - Child Controls (Z-Order, Tab Order)
- Multiple Document Interface (MDI)
- Creating an Event Handler for a Control
- Dialogs
  - Standard Dialogs and Styles
  - Data Validation
    - Regular Expressions
    - Data Format Notification
    - Thorough Validation
  - Help
    - Tooltips
    - Using the ErrorProvider
    - Handling the Help Button and F1
    - HTML Help
- Drawing Basics
  - Colors, Brushes, and Pens
  - Shapes and Images
  - Applying Master Pages Through a Configuration File
- Drawing Text (Fonts and Strings)
- Advanced Drawing
  - Page Units
  - Transforms
  - Regions
  - Optimized Drawing
- Printing (Print Preview, Page Setup, and Print Dialogs)

### Part II – WinForm Controls and Design-Time Integration

- Standard Controls (Action, Value, List, Container, ImageLists, Owner-Draw)
- Custom Controls
- Drag and Drop (Enhancing the usability of applications)
- Design-Time Integration Basics
  - Hosts, Containers, and Sites
  - The *DesignMode* Property
  - Code Serialization



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- Batch Initialization
- Extender Property Providers
- Resource Basics (Manifest, Typed, Designer)
- Resource Localization
  - Resource Probing
  - Input Language

### **Part III – WinForm Applications and Settings**

- Application Lifecycle
- Environment
  - Compile-Time Settings
  - Environment Settings
- Settings
  - .config Files
  - Dynamic Properties
  - The Registry
  - Special Folders
- Adding ADO .NET 2.0 Objects
- Data Sets (Retrieving, Creating, Updating, Deleting, Tracking)
- Designer Support (Connection, Command, and Data Adapter Objects)
- Data Binding and Data Grids (includes an overview of XML services)
  - Formatting Data Grids
  - Custom Data Sources
- Calling Win32 APIs
- Multithreaded User Interfaces
  - Long-Running Operations
  - Asynchronous Web Services
- Deploying WinForms

### **Part IV – Advanced WinForm Design (*If time permits*)**

- Web Deployment
  - Hosting Controls in a Web Browser
  - Code Access Security
- Delegates
  - Interfaces
  - Static Listeners
- Events
  - Harvesting All Results
  - Asynchronous Notification (Fire and Forget, Polling, Delegates)
- Serialization Basics (Streams, Formatters, ISerializable, Data Versioning)