

## Course Outline

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### 2547– Advanced Windows Forms Technologies with Microsoft Visual Studio 2005



**Duration:** 2 days (12 hours)

#### Learning Objectives:

- Build MDI applications
- Customize Windows Forms and controls
- Create customized print components
- Perform drag-and-drop operations and implement Clipboard support
- Perform asynchronous tasks in Windows Forms by using multithreaded techniques
- Enhance the presentation of Windows Forms applications

#### Target Audience:

This workshop is intended for corporate or independent software vendor (ISV) application developers who have a desire to learn more about specific technology areas in Windows application development

#### Prerequisites:

- Have attended or studied Workshop 2546A, Core Windows Forms Technologies with Visual Studio 2005 or possess equivalent knowledge and skills.
- Be able to manage a solution environment using the Visual Studio 2005 integrated development environment (IDE) and tools.
- Be able to program an application using a Microsoft .NET Framework 2.0 compliant language, including the use of delegates and events.
- Understand advanced concepts including serialization, reflection, application domains, and multithreading

#### Topics Covered:

- Building MDI Applications
  - Windows Forms Layout Options
  - What Are MDI Applications?
- Customizing Windows Forms and Controls
  - What Are the Methods of Authoring Controls for Windows Forms?
  - Ways to Draw a User Interface by Using GDI+
  - Creating a Nonrectangular Windows Form
- Creating Customized Print Components
  - Printing Features that Are Supported by .NET Framework 2.0
  - Drawing Print Document Content by Using GDI+
- Performing Drag-and-Drop Operations and Implementing Clipboard Support
  - Drag-and-Drop Operations in Windows Forms Applications
  - Adding Clipboard Support in Windows Forms Applications

- Performing Asynchronous Tasks by using Multithreaded Techniques
  - Asynchronous Programming in Windows Forms Applications
  - Creating Thread-Safe Applications
- Enhancing the Presentation of Windows Forms Applications
  - Enhancing Application User Interfaces
  - Customizing the DataGridView Control
  - Application Settings and the PropertyGrid Control