

Course ID

TK2547A

Course Duration

2 days

Course Title

Advanced Windows Forms Technologies with Microsoft Visual Studio 2005

Aimed At

Corporate or Independent Software Vender (ISV) application developers who have a desire to learn more about specific technology areas in Windows application development.

Group Size

5-15

Prerequisites

- Core Windows Forms Technologies with Microsoft Visual Studio 2005 (TK2546A, 3 days) or possess equivalent knowledge and skills.

You should be able to manage a solution environment using the Visual Studio 2005 Integrated Development Environment (IDE) and tools, program an application using a .NET Framework 2.0 compliant language, including the use of delegates and events, and understand advanced concepts including serialization, reflection, application domains, and multithreading.

Course

In a Nutshell

This course will arm you with the knowledge and skills needed to develop advanced Microsoft Windows Forms applications using Microsoft Visual Studio 2005.

The course provides in-depth coverage of user interfaces, program structure, and implementation details including such tasks as building MDI applications, customizing windows forms and controls, customizing print components, drag-and-drop operations, clipboard support, asynchronous tasks using multithreaded techniques, creating thread safe applications, and enhancing application user interfaces.

Customize It!

We can tailor this course to your specific background and needs at little no added cost.

Learn How To

- 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 application

Course

Outline

- Building MDI Applications
 - Windows forms layout options
 - What are MDI applications?
 - Exercises

- Customizing Windows Forms and Controls
 - Methods of authoring controls for windows forms
 - Drawing a user interface by using GDI+
 - Creating a nonrectangular Windows form
 - Exercise: Creating customized forms and controls
- Creating Customized Print Components
 - Print features supported by .NET Framework 2.0
 - Drawing print document contents by using GDI+
 - Exercise: Creating customized print components
- Performing Drag-and-Drop Operations and Implementing Clipboard Support
 - Introduction to properties, methods and events of drag-and-drop operations
 - Implementing drag-and-drop functionality
 - Adding clipboard support to an application
 - Exercises on drag-and-drop operations
- Performing Asynchronous Tasks by using Multithreaded Techniques
 - Asynchronous programming in Windows forms application
 - Creating thread-safe applications
 - Exercises involving asynchronous tasks
- Enhancing the Presentation of Windows Forms Applications
 - Enhancing application user interfaces
 - Customizing the DataGridView control
 - Application settings and PropertyGrid control
 - Exercises
- Wrap-up: Course Recap, Q/A, and Evaluations

How You Will Learn

- An experienced IT professional and instructor will teach this class in workshop (interactive lecture/lab) format.
- Hands-on exercises will help you understand each topic and make a bridge from theory to application.
- The class will include examples and exercises to help you hone your skills and apply them to the solution of real-world problems.
- We'll tell you the dos and don'ts as well as the tricks and traps.
- You will receive a comprehensive study guide to serve as a refresher and a reference.

Revised

April 5, 2007