Software Skills Training, Inc.

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Windows Forms Programming for Experienced C# Programmers

Duration: 3 Days *(Face-to-Face & Remote-Live)*, or 21 Hours *(On-Demand)*

Price: $1695 *(Face-to-Face & Remote-Live)*, or $895 *(On-Demand)*

Discounts: We offer multiple discount options. Click here for more information.

Delivery Options: Attend face-to-face in the classroom, remote-live or via on-demand training.

Description

This course provides students with hands on experience using Visual Studio to create desktop applications using Windows Forms and the .NET Framework using C#. Students should already have a working knowledge of C#.

This course teaches students how to leverage the power of the .NET Framework to build desktop applications. Students learn how to build Windows Forms applications and use with a variety of controls to create sophisticated user interfaces. Students also learn how to use the BackgroundWorker to perform asynchronous operations.

Students also learn how to use ADO.NET to interact with databases and XML files. Students learn how Windows Forms uses data binding to display data in controls such as the DataGridView and Chart. Students will also learn how to leverage the power of web services by calling both SOAP services and RESTful APIs.

Other topics include: debugging techniques; using a .config file to control application configuration; building menus, toolbars and status bars; reading and writing files; interacting with the file system; and deploying desktop applications.

Comprehensive labs provide the students with extensive experience creating and deploying Windows Forms-based desktop applications.

Prerequisites

Prior experience with C# is required.

Course Overview

Windows Forms Applications

- Windows Forms Applications
- Setting Form Properties
- Understanding the Life-cycle of a Form
- Using the Windows Forms Designer
- Using the `MessageBox` Class
- Using a `.config` File

Using Controls

- Working with Windows Forms Controls
- Using `Text` Controls
- Using `Button` Controls
- Using `Selection` Controls
- Using `List` Controls
- Using `Container` Controls
- Using `Image` Controls
- Using `Up/Down` Controls
- Using the `ErrorProvider` and `ToolTipProvider` Controls

Handling Events

- Understanding the Event-Driven Programming Model
- Writing Event Handlers
- Sharing Event Handlers

Performing Asynchronous Activities

- Understanding Threading
- Working with Delegates
- Using the Background Worker
- Updating Controls from Other Threads

ADO.NET

- Understanding the ADO.NET Object Model
- Connected vs. Disconnected Access
- Using a Connection to Connect to a Data Source
- Using a Command to Execute Queries and Stored Procedures
- Using a `DataReader` to Work with Cursors
- Using the `DataSet` with Disconnected Data
- Using `DataAdapters` with DataSets

Using XML

- Understanding XML and XML Schemas
- Reading XML Data with a `DataSet`
- Writing XML Data with a `DataSet`

Data Binding

- Understanding ADO.NET Data Binding
- Binding to Simple and Complex Controls
- Manually Binding Controls
- Using the `BindingSource` Control
- Using the `BindingNavigator` Control
- Using the `DataGridView` Control
- Using the `Chart` Control

Working with Forms

- Understanding Modal vs Modeless Forms
- Displaying Modal Forms
- Working with `DialogResult`
- Retrieving Data from Modal Forms
- Displaying Modeless Forms
- Working with Data in Modeless Forms
- Using the Common Dialogs

Working with Menus, Toolbars and Status Bars

- Working with Menus
- Working with Toolbars
- Working with Status Bars

Working with Files and Directories

- Working with the Windows File System
- Discovering Drives
- Discovering Directories
- Discovering Files
- Examining File, Directory and Drive Attributes
- Reading, Writing and Appending to Files

Calling Web Services

- Understanding Web Services
- Calling SOAP Services
- Calling REST Services
- Serializing and Deserializing JSON

Deploying Windows Forms Applications

- Understanding Deployment Options
- Configuring an Application for Deployment
- Using XCOPY Deployment
- Using Installers
- Using Click-Once Deployment

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