

Course: **6460A Visual Studio 2008: Windows Presentation Foundation (VB)**

Description:

Price: \$1,495.00

Category: Visual Studio

Duration: 3 days

Schedule:

[Request Dates](#)

Outline:

Introduction

This three-day instructor-led course provides students with the knowledge and skills to build and configure a Windows Presentation Foundation (WPF) solution.

At Course Completion

After completing this course, students will be able to:

- Create a WPF application.
- Build a user interface in a WPF application.
- Customize the appearance of a WPF application.
- Bind user interface controls to data sources.
- Bind user interface controls to collections.
- Create new controls in a WPF application.
- Manage documents in a WPF application.
- Add graphics and multimedia support to a WPF application.
- Configure and deploy WPF applications.

Course Outline

Module 1: Creating an Application by Using WPF

This module explains how to build a WPF application.

Lessons

- Overview of WPF



- Creating a Simple WPF Application
- Handling Events and Commands
- Navigating Between Pages

Lab: Creating a WPF Application

- Creating a Stand-Alone WPF Application
- Handling Events and Commands
- Navigating Between Pages
- Creating an XBAP Application

After completing this module, students will be able to:

- Explain WPF concepts and features.
- Create a simple WPF application.
- Handle events and commands.
- Navigate between pages in a WPF application.

Module 2: Building User Interfaces

This module explains how to build a user interface in a WPF application.

Lessons

- Defining Page Layout
- Building User Interfaces by Using Content Controls
- Building User Interfaces by Using Items Controls
- Hosting Windows Forms Controls

Lab: Building User Interfaces

- Defining Page Layout and Adding Content
- Enhancing the User Interface by Using Items Controls
- Integrating Windows Forms Controls



After completing this module, students will be able to:

- Define layout.
- Use content controls.
- Use items controls.
- Host Windows Forms controls.

Module 3: Customizing Appearance

This module explains how to customize the appearance of a WPF application.

Lessons

- Sharing Logical Resources in an Application
- Creating Consistent User Interfaces by Using Styles
- Changing the Appearance of Controls by Using Control Templates
- Enhancing User Interfaces by Using Triggers and Animations

Lab: Customizing the Appearance of a WPF Application

- Sharing Logical Resources in an Application
- Creating Consistent User Interfaces by Using Styles
- Changing the Appearance of Controls by Using Control Templates
- Enhancing the User Interface by Using Triggers and Animations

After completing this module, students will be able to:

- Share logical resources throughout an application.
- Create a consistent user interface appearance by using styles.
- Change the appearance of controls using templates.
- Change the appearance of user interface elements by using triggers and animations.

Module 4: Data Binding



This module explains how to bind user interface controls to data sources.

Lessons

- Overview of Data Binding
- Creating a Data Binding
- Implementing Property Change Notification
- Converting Data
- Validating Data

Lab: Data Binding

- Creating Data Bindings
- Implementing Property Change Notification
- Converting Data
- Validating Data

After completing this module, students will be able to:

- Explain WPF data binding concepts and terminology.
- Create a binding between a data source and a control.
- Implement property change notifications.
- Convert data between the binding source and the binding target.
- Validate data entered by the user.

Module 5: Data Binding to Collections

This module explains how to bind user interface controls to collections.

Lessons

- Binding to Collections of Objects
- Presenting Data by Using Collection Views
- Presenting Data by Using Data Templates

Lab: Data Binding to Collections



- Presenting Data by Using Collection Views
- Presenting Data by Using Data Templates

After completing this module, students will be able to:

- Bind to a collection of objects.
- Sort, filter, and group collections by using collection views.
- Create master-detail user interfaces.
- Fine-tune data display by using data templates.

Module 6: Creating New Controls

This module explains how to create new controls in a WPF application.

Lessons

- Overview of Control Authoring
- Creating Controls

Lab: Creating New Controls

- Implementing a Custom Control

After completing this module, students will be able to:

- Explain scenarios and options for creating new controls.
- Create user controls.
- Create custom controls.

Module 7: Managing Documents

This module explains how to manage documents in a WPF application.



Lessons

- Creating and Viewing Flow Documents
- Creating and Viewing Fixed Documents
- Packaging Documents
- Printing Documents

Lab: Managing Documents

- Creating and Displaying Flow Documents
- Printing Documents
- Creating a Signing XPS Documents

After completing this module, students will be able to:

- Create and view flow documents.
- Create and view fixed documents.
- Package a document.
- Print a document.

Module 8: Graphics and Multimedia

This module explains how to add graphics and multimedia support to a WPF application.

Lessons

- Creating 2-D graphics
- Displaying Images
- Creating 3-D Graphics
- Manipulating the 3-D Environment
- Adding Multimedia

Lab: Graphics and Multimedia

- Displaying 2-D graphics
- Displaying Images



- Displaying 3-D Graphics
- Playing Video Clips

After completing this module, students will be able to:

- Display 2-D graphics.
- Add images in a WPF application.
- Display 3-D graphics.
- Use additional 3-D graphics capabilities.
- Add multimedia content to a WPF application.

Module 9: Configuring and Deploying Applications in Windows Presentation Foundation

This module explains how to configure and deploy WPF applications.

Lessons

- Deployment Options
- Deploying a Stand-Alone WPF Application
- Deploying an XBAP Application
- Configuring Manifest Settings

Lab: Configuring and Deploying WPF Applications

- Deploying a Stand-Alone WPF Application
- Updating a Deployment Manifests
- Deploying an XBAP Application

After completing this module, students will be able to:

- Explain deployment options.
- Deploy a standalone WPF application.
- Deploy an XBAP application.
- Configure security settings.

