

KOENIG SOLUTIONS · COURSE OUTLINE

Microsoft Windows Presentation Foundation (WPF) (4035)

Learn to build Windows desktop applications with WPF, from XAML and controls to layout, dialogs, menus and resources.

9

MODULES

60

TOPICS

COURSE OVERVIEW

This course covers the fundamentals of Windows Presentation Foundation, starting with an introduction to WPF applications, windows, brushes and panels using Visual Studio 2022. It then examines XAML syntax, WPF controls, layout panels and dialogs, followed by menus, commands, toolbars and status bars. The course also covers dependency properties, routed events and the use of binary, logical, static and dynamic resources.

WHO THIS COURSE IS FOR

Software Developers

Application Developers

Desktop Application Developers

.NET Developers

UI Developers

LEARNING OBJECTIVES

- Explain the role of WPF and .NET Core in application development
- Describe XAML elements, attributes, namespaces and type converters
- Apply WPF controls such as Button, TextBox and ListBox
- Configure layout using panels such as Grid, StackPanel and DockPanel
- Implement message boxes and custom modal and modeless dialogs
- Build menus, context menus, commands and keyboard shortcuts
- Configure toolbars and status bars within a WPF application
- Analyse dependency properties, routed events and resource types

9 Modules, 60 Topics

Introduction to WPF

TOPICS

- Why WPF?
- What Is WPF?
- .NET Core and WPF
- WPF Overview
- Application and Window
- A Simple WPF Application
- Using Visual Studio 2022
- Brushes
- Panels

02

XAML

TOPICS

Role of XAML · Elements and Attributes · Namespaces · Property Elements · Type Converters · Content Property · Collections · XAML and Procedural Code

03

WPF Controls

TOPICS

Button · Label · TextBox · ToolTip · RadioButton · CheckBox · ListBox · ComboBox

04

Layout

TOPICS

- Sizing
- Positioning
- Transforms
- Canvas
- Drawing Shapes
- StackPanel
- WrapPanel
- DockPanel
- Grid
- Scrolling
- Scaling

05

Dialogs

TOPICS

Message Boxes · Win32 Common Dialogs · Custom Modal Dialogs · Custom Modeless Dialogs

06

Menus and Commands

TOPICS

Menus · Context Menus · Icons on Menu Items · Commands · Keyboard Shortcuts · Disabling Menu Items · Checking Menu Items

07

Toolbars and Status Bars

TOPICS

Toolbars · Toolbars and Commands · Status Bars

08

Dependency Properties and Routed Events

TOPICS

Dependency Properties · Change Notification · Property Value Inheritance · Support for Multiple Providers · Routed Events · Routing Strategies

09

Resources

TOPICS

Resources in WPF · Binary Resources · Logical Resources · Static versus Dynamic Resources

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig



Who We Are

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