

# WPF Training Course Content

## **Introduction to WPF**

- Overview of WPF concepts and features
- Creating a simple WPF application

## **Event Handling in WPF**

- Overview of events
- Bubbling events
- Tunneling events
- Commands

## **Creating a WPF User Interface**

- Page layouts
- Content controls
- Range-based controls
- Items controls
- Accessing the visual tree

## **Managing Windows**

- Window essentials
- Creating modal and modeless dialogs
- Pages and navigation

## **WPF Resources, Styles, and Triggers**

- Logical resources
- Defining styles;
- Style inheritance
- Using triggers

## **Using Control Templates**

- Overview of control templates
- Defining control templates for content controls
- Defining control templates for items controls
- Resource-only DLLs

## **Data Binding in WPF**

- Concepts and terminology
- Binding a data source to a control
- Handling property-change notifications
- Conversion and validation
- Data Binding to a Database
- Binding to a data object
- Updating the database
- WPF Data Binding
- Conversions and Validations

- Defining data templates
- Using collection views
- Binding to ADO.NET data objects;
- Binding to LINQ and XML
- Binding to a collection
- WPF Design Tools and User Interface Effects
- Shapes, Transforms, and Brushes
- Defining shapes
- Creating and using transforms
- Using brushes effectively

### **Multithreading and WPF**

- Multithreading with the dispatcher
- Background Worker
- Tracking progress
- Supporting cancellation

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