

Course : .NET, creating WPF applications

Windows Presentation Foundation and Visual Studio
Practical course - 4d - 28h00 - Ref. NPF
Price : 2470 CHF E.T.



A DirectX overlay, Windows Presentation Foundation is the Microsoft .NET graphics specification. This training course will familiarize you with the design of different types of WPF applications through hands-on workshops using Visual Studio, C# or VB .NET, and MS Blend.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understanding how Windows Presentation Foundation (WPF) works
- ✓ Acquire Windows development skills with WPF technology
- ✓ Master Windows development syntax in C# (or VBNet)
- ✓ Use the Visual Studio integrated development environment
- ✓ Discover the basics of MS Blend

Intended audience

.NET developers who want to discover the possibilities offered by WPF and understand the tools for implementing it.

Prerequisites

Knowledge of XML and the .NET platform (framework 3.5 or higher, Visual Studio and C# or VB .NET).

Course schedule

1 Introduction

- Objectives, WPF architecture and the different types of projects available. XAML.
- VS, MS Blend and SDK tools. WPF application structure. Programming model.

Hands-on work

Typical applications. Create a simple interface in XAML and add behavior with Visual Studio.

PARTICIPANTS

.NET developers who want to discover the possibilities offered by WPF and understand the tools for implementing it.

PREREQUISITES

Knowledge of XML and the .NET platform (framework 3.5 or higher, Visual Studio and C# or VB .NET).

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

2 Interface design

- Window design and positioning techniques. Element families.
- Use of routed events. Integrating multimedia elements. Document management.

Hands-on work

Create, customize and program common elements. Create custom controls.

3 Resource management

- Roles of logical and physical resources.
- Design control styles and templates.
- Role and use of different types of triggers.

Hands-on work

Formatting controls with styles. Design a custom control.

4 DataBinding

- Reminders. Markup extension expression editor.
- Configuration of link mode with tagging extensions or by code.
- Managing different types of sources. Data presentation model.
- Conversion and validation operations with error handling. DataGrid and CollectionViewSource control.

Hands-on work

Create data links on a collection of business objects, with validation and conversion.

5 The WPF application

- Startup and execution cycle. Use of commands.
- Modal windows, attached windows and standard dialog boxes.
- Logical resource organization. MVVM pattern (principle and implementation).
- Pages and navigation system. Browser applications.

Hands-on work

Implementation of predefined commands. Creation of a modal window with data exchange, a navigation system and a Navigator-type application.

6 Getting started with MS Blend

- Interface organization and integration with VS.
- Resource and asset management.
- Creation of animations and templates.

Hands-on work

Creation of an input interface using MS Blend.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

Dates and locations

REMOTE CLASS

2026 : 23 June, 6 Oct., 15 Dec.