

Development of Windows applications using WPF using the MVVM pattern

Course code: DOTNET_WPF2

The course is taught for .NET developers who are interested in taking advantage of the MVVM architecture in creating WPF applications. You will learn to understand the advantages and disadvantages of this approach not only in theory, but also how to apply it in real situations, including design variants and related decisions, on real examples.

Affiliate	Duration	Course price	ITB
Praha	3	13 800 Kč	30
Brno	3	13 800 Kč	30
Bratislava	3	600 €	30

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
 22.09.2025	3	13 800 Kč	Telepresence	CZ/SK	GOPAS Praha
 22.09.2025	3	13 800 Kč	Telepresence	CZ/SK	GOPAS Brno
 22.09.2025	3	600 €	Telepresence	CZ/SK	GOPAS Bratislava
02.02.2026	3	13 800 Kč	Presence	CZ/SK	GOPAS Praha
18.05.2026	3	13 800 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

Required input knowledge

- Experience with c # programming at GOC2125 and DOTNET_WPF levels is assumed
- Development experience with Visual Studio
- Experience with object-oriented programming in C #
- Experience with LINQ technology

Teaching methods

- Expert explanation with practical examples, exercises on computers

Course syllabus

Architecture and MV * patterns

MVVM - what, why, how

Model

- Link with three-tier architecture
- Model requirements
- Useful Designs - Facade and Adapter

ViewModel

- Purpose and responsibilities
- INotifyPropertyChanged and ObservableCollection
- Model and viewmodel status - differences
- Hybrid architecture - MVP vs MVVM
- Navigation and Pattern Mediator

View

- XAML, resources, binding
- Sequence of events and how to avoid event loops

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Dependency and constraint management

- Manual access
- IoC / DI

Alternatives

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