

# Upgrade to .NET and C# language improvements

Course code: DOTNET\_UPG

The course is intended for C# developers who plan to migrate from the .NET Framework to the current version of .NET or want to learn what's new from the current version. NET. The course focuses on important changes between the .NET Framework version and the current .NET version that developers should not miss, such as project structure changes, configuration, compilation, and runtime and memory management changes. On the other hand, the course does not deal with changes in libraries for ASP.NET or Entity Framework, which are discussed in follow-up courses.

Affiliate	Duration	Course price	ITB
Praha	2	9 200 Kč	20
Brno	2	9 200 Kč	20
Bratislava	2	400 €	20

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
T 10.10.2024	2	9 200 Kč	Telepresence	CZ/SK	GOPAS Praha_GTT
T 10.10.2024	2	9 200 Kč	Telepresence	CZ/SK	GOPAS Brno_GTT
T 10.10.2024	2	320 €	Telepresence	CZ/SK	GOPAS Bratislava_GTT
T 23.01.2025	2	9 200 Kč	Telepresence	CZ/SK	GOPAS Brno_GTT
T 23.01.2025	2	9 200 Kč	Telepresence	CZ/SK	GOPAS Praha_GTT
T 23.01.2025	2	320 €	Telepresence	CZ/SK	GOPAS Bratislava_GTT
T 28.04.2025	2	320 €	Telepresence	CZ/SK	GOPAS Bratislava_GTT
T 28.04.2025	2	9 200 Kč	Telepresence	CZ/SK	GOPAS Praha_GTT
T 28.04.2025	2	9 200 Kč	Telepresence	CZ/SK	GOPAS Brno_GTT

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## Participant requirements

- Knowledge of C# programming at GOC2125 course level

## Teaching methods

- Expert interpretation with practical examples, exercises on computers.

## Studying materials

- Online presentation of discussed material and exercises.

## Course outline

Introductory overview

- Overview of the .NET platform
- LTS version
- .NET Standard
- Differences from the .NET Framework, unsupported technologies, replacement/new functionality
- New project structure

Migration

- Project migration scenarios from .NET Framework to .NET (Core)
- Auxiliary and (semi)automatic tools

**GOPAS Praha**  
Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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# Upgrade to .NET and C# language improvements

## Roslyn Compiler

- Targeting libraries, SDK, runtime versions
- Multiplatform (x-plat)
- Application distribution, self-contained deployment, roll forward
- AOT, PGO, R2R and related technologies

## Other topics

- Configuration files
- Runtime and GC changes, new programming options in C# for optimized code
- Event counters
- Reflection, source generators
- Structured logging
- Integrated IoC/DI overview

A quick overview of what's new in the latest versions of C#

### **GOPAS Praha**

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

### **GOPAS Brno**

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

### **GOPAS Bratislava**

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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