

PowerShell and PowerShell Core basics

Course code: GOC216

Five-days instructor-led course teaches basics of handling the command line, pipe and scripting, and basic programming of simpler functions in both PowerShell and PowerShell Core, how to use basic language elements such as the pipe, variables, conditions, methods and NET types, functions, exception handling and error management, module development and remote connections using PowerShell Remoting (PSRemoting) over both HTTPS and SSH. The training is suitable for IT admins, developers as well as DevOps and the knowledge at this level is necessary to attend more advanced and more specialized PowerShell trainings.

Affiliate	Duration	Course price	ITB
Praha	5	26 000 Kč	50
Brno	5	26 000 Kč	50
Bratislava	5	1 000 €	50

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
31.08.2026	5	21 580 Kč	Presence	CZ/SK	GOPAS Brno
21.09.2026	5	26 000 Kč	Presence	CZ/SK	GOPAS Praha
05.10.2026	5	1 000 €	Online	CZ/SK	Online
05.10.2026	5	26 000 Kč	Online	CZ/SK	Online
 19.10.2026	5	26 000 Kč	Presence	CZ/SK	GOPAS Praha
19.10.2026	5	1 000 €	Online	CZ/SK	Online
19.10.2026	5	26 000 Kč	Online	CZ/SK	Online
23.11.2026	5	26 000 Kč	Presence	CZ/SK	GOPAS Praha
23.11.2026	5	1 000 €	Presence	CZ/SK	GOPAS Bratislava
30.11.2026	5	26 000 Kč	Presence	CZ/SK	GOPAS Brno
14.12.2026	5	26 000 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

Prerequisites

Knowledge in extent of the courses which are listed in the bellow sections **Previous Courses** and **Related Courses**

Course outline

Versions of PowerShell and PowerShell Core and their support requirements

Working with the command line interface and built-in GUI tool PowerShell_ISE, overview of Visual Studio options

Running built-in EXE programs, cmdlets and calling .NET static methods

Command line interpreter syntax

Expression parsing in developer mode

Basic elements of the command line, pipe and its features

Introduction to types, classes and objects, their properties and methods

Examples of common built-in cmdlets for operating system administration such as Get-, Set-, New-, Add-, Move- etc.

Getting help, command syntax, aliases and commenting

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk



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PowerShell and PowerShell Core basics

Concept of PSDrive, working with files, registry and certificates

Running scripts from BAT files, scheduled tasks and using psexec

Remote connections with PSRemoting (Enter-PSSession)

Typed variables, value casting and automatic value conversions

Basic data types such as integers, strings, datetime, GUID, enum etc.

Working with CIM and WMI, random number generators, downloading and parsing web pages, access web services

Working with text files, CSV/TSV files, INI and XML files, input and output from/to files

Basic language elements such as if, while, do, for, foreach etc.

Introduction into building more complex functions and creating PowerShell modules

Handling errors and exceptions (try, catch, finally)

Preparation for Microsoft certification

Most Microsoft certification exams do not require students to attend an official MOC course in order to pass the exam.

This applies to all certifications except for MCM

Official Microsoft MOC courses as well as our own GOC courses are good ways of preparation for Microsoft certifications such as MCP, MTA, MCSA, MCSE or MCM

This does not mean that official MOC courses would serve as the only necessary preparation. The primary goal of an MOC course is to provide for sufficient theoretical knowledge and practical experience to effectively work with the related product

MOC courses usually cover most of the topics required by their respective certification exams, but often do not give every topic the same amount of time and emphasis as may be required to completely pass the exam

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