

# PowerShell Fundamentals

Authorial training.

The training is addressed to:

- Administrator,
- HelpDesk,
- IT specialist



## Purpose of the training

The training:

- is for specialists who have no experience in any scripting language and work in Command Line.
- aims to introduce the world of scripting and opens a path for further more effective learning MS 10961. Thanks to shared projects and standalone labs participants will be able to practically use discussed topics and understand better issues related to work in Command Line.

The aim of the training:

- Learning to write PowerShell commands



## Benefits of completing the training

- gaining practical skills of writing PowerShell commands

The course provides participants with fundamental knowledge and skills of using Windows PowerShell, as well as focuses on features and techniques of basic command line. Knowledge gained at the course can be used to administer and automate Windows Servers, ActiveDirectory, Microsoft 365.

It also provides fundamental skill of detecting and structuring commands required to execute specific task.



## Expected Listener Preparation

- Fundamental experience in administering Windows Server and Client systems, Active Directory, Microsoft 365.
- We do not require any earlier experienced with any Windows PowerShell environment version.
- An ability to use English materials.

To make your work more convenient and training more effective, we suggest using an additional screen. Lack of such screen does not exclude participation in the training; however, it significantly influences working comfort during classes.

You can find information and requirements of participation in Distance Learning trainings at:

<https://www.altkomakademia.pl/distance-learning/#FAQ>



## Training Language

- **Training:** English
- **Materials:** English



## Training Includes

- manual in electronic form available on the platform: <https://www.altkomakademia.pl/>
- access to Altkom Akademia's student portal



## Duration

4 days / 28 hours

## Training agenda

### 1. Introduction

- What is PowerShell
- CMD vs PowerShell
- Windows PowerShell 5.1 vs PowerShell 7 Core
- Command line, ISE, Visual Studio Code, PowerShell Studio

### 2. Commands

- Structuring commands
- Searching for commands
- Support systems

### 3. Modules

- A review of modules
- Installing modules
- Working with modules

### 4. Pipeline

- Introduction
- Objects
- Filtering
- Selecting

### 5. Variables

- Introduction
- Variable types
- Working with variables

### 6. Automating tasks

- Introduction
- PowerShell + AD