

# PowerShell “Zero to Hero”

## automation for beginners

A fast-paced, hands-on introduction to PowerShell designed for administrators with little to no prior scripting experience. This course focuses on real-world tasks, practical skills, and understanding how to use PowerShell effectively in day-to-day IT operations. No slides, many demos, many hands-on exercises.

### Overview:

- **Duration:** 1 (extendable to 2 days with optional modules, longer labs, and extended Q&A)
- **Teaching format:** online or on-site, suitable for groups up to 16 participants
- **Target Audience:** junior system administrators and operators wishing to automate IT processes
- **Prerequisites:** basic familiarity with Windows administration; no prior scripting knowledge required

### Goals:

- Understand the core concepts of the PowerShell ecosystem
- Load modules, locate commands, and access their documentation
- Work with output on the pipeline to filter, enumerate and display and export data reliably
- Write simple scripts using variables, conditions, and loops
- Perform basic automation tasks for on-premises and cloud services

### Deliverables:

Training delivery includes preparation of hosting environment for hands-on labs, one per each attendee. Attendees also receive access to sample code, a list of reference resources, and transcript of code written in class. Classes are not recorded.

### Pricing terms:

Training delivery is priced based on group size and includes trainer fee, courseware, hosting for the hands-on labs. Some customizations may incur an additional development charge. Travel expenses are billed as agreed before commencement of contract.

## Course outline:

### Chapter 1: Finding and Learning Commands

- Understanding the command ecosystem
- Discovering cmdlets with Get-Command
- Updating and using help
- Reading parameter documentation
- Seeking help in external resources

### Chapter 2: Working with the Pipeline

- Object pipelining fundamentals
- Retrieving structured objects
- Filtering on properties
- Formatting output
- Exporting to common file formats

### Chapter 3: Data and Control of Flow

- Using variables and data types
- Using basic enumeration and loops
- Applying conditional logic

### Chapter 4: Automating Common Tasks

- Accessing system repository data
- Working with PSDrives
- Basic user management

### Chapter 5: Scripting Basics

- Understanding the structure of a script
- Writing reusable code
- Using parameters and creating documentation
- Adhering to basic best-practices

## Customization:

Topics listed can be modified to suit the needs of the attendees or class hours. It can be adapted to the audience's operational environment, focusing on on-premises Windows administration, Azure, or hybrid workflows. Additional topics may be added, provided available development time.



## About the trainer

### Paul "Dash" Wojcicki-Jarocki

With over two decades of experience in the Microsoft ecosystem, Paul is a trainer and consultant specializing in cloud infrastructure, automation, and deployment. Paul has designed and built solutions for enterprises across EMEA, often for the public and military sectors. As a Microsoft Certified Trainer, he delivers bespoke training, and has presented at industry-leading events (Microsoft Ignite, PowerShell+DevOps Global Summit, MCT Summit).