

# Microsoft Powershell e-learning channel

Practical course - 1d - 05h16 - Ref. 8PW

Price : 190 € E.T.

Dive into the world of PowerShell: master commands, automate tasks and unleash the full potential of your system administration. Get ready to simplify your IT processes in a single command with our specialized channel on the PowerShell language. Why do manually what PowerShell can do for you?

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Getting to grips with Windows PowerShell.
- ✓ Learn the basics of the language (operators, types, loops, functions, objects and modules).
- ✓ Use regular expressions.
- ✓ Use essential commands and tools (remoting, variables, error handling).
- ✓ Learn fundamental scripting techniques.
- ✓ Compose an Active Directory user creation script.
- ✓ Write scripts in Windows with PowerShell.
- ✓ Publish modules in PowerShell Gallery.
- ✓ Deploy a local module repository.

## Intended audience

Systems and network technicians, administrators and engineers.

## Prerequisites

Knowledge of system and network administration.

### PARTICIPANTS

Systems and network technicians, administrators and engineers.

### PREREQUISITES

Knowledge of system and network administration.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.

- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.

- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## Practical details

### Digital activities

IT structure: recorded courses, expert videos and best practice sharing.

### Mentoring

L'option tutorat propose un accompagnement personnalisé par un formateur référent ORSYS, expert du domaine. Adapté aux besoins, aux capacités et au rythme de chaque apprenant, ce tutorat combine un suivi asynchrone (corrections personnalisées d'exercices, échanges illimités par message...) et des échanges synchrones individuels. Bénéfice : une meilleure compréhension, le développement des compétences et un engagement durable dans la formation.

### Pedagogy and practice

A wealth of content produced by trainers following a rigorous pedagogical approach. During each course, operational cases are commented on by experts to help learners put into practice what they have just learned. To help learners anchor their memory, each content item is broken down into short sequences of 3 to 10 minutes. This enables each learner to learn dynamically and independently.

## Course schedule

### 1 PowerShell 7, learn the basics of scripting

- Discover PowerShell and learn your first commands.
- Scripting basics.
- Scripting: methodology and application.

### 2 PowerShell, optimizing scripting with functions and modules

- PowerShell scripts and functions.
- Trace management.
- PowerShell modules.
- Artificial intelligence with GitHub Copilot.
- Unit testing in PowerShell with Pester.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.