

# The Complete PowerShell Course for Professional Administrators (PSHELLC, 4 jours)

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## Description

This SETC certified course provides participants with the knowledge and skills they need to automate just about anything using PowerShell in a Windows environment. Starting with the basics of the language, this fast paced professional training course tackles everything from the basics of the language to its use in virtual infrastructures. On the way, participants are introduced to inheritance and polymorphism, WMI scripts, active directory and files amongst others. If you are a professional network administrator who wants to master automation with PowerShell, this is the course for you.

## Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

## Plan de cours

### PowerShell Introduction

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The Need for PowerShell

The PowerShell Language

Installing PowerShell

### PowerShell Essentials

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Variables and Variable Declaration

PowerShell Commands and Cmdlets

Command Categories and Aliases

Pipelines and Commands

Formatting Output

### Scripting in Windows PowerShell

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Creating PowerShell Scripts

Invoking Scripts like Commands

Passing Arguments to Scripts

Using Parameters in Scripts

Validating Parameters

### Object Oriented Programming in PowerShell

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Object Basics

Constructing Objects

Using Common Objects

Using Object Properties and Methods

About Object Events

Responding to Events

About Inheritance and Polymorphism: Use and Concept

A Few Practical Examples

### Managing the File System Using PowerShell

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The File System

Accessing Files and Directories

Filter and Exclusion Criterion

Getting File and Directory Contents

Navigating the File System

Relative and Absolute Paths

Converting Relative Paths into Absolute Paths

Working with Files and Directories

Creating New Drives

Processing Comma-Separated Lists

Moving and Copying Files and Directories

Renaming Files and Directories

Managing Access Permissions

Creating New Permissions

Processes, Services and Event Logs

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Processes

Monitoring Processes

Counting Processes

Stopping Processes

Managing Services

Listing Services

Monitoring the Event Log

Monitoring Processes

The PowerShell Event Log

WMI: Windows Management Instrumentation

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WMI Classes and Instances

Directly Accessing Instances

Modifying Properties

Viewing Class Descriptions

Invoking WMI Methods

Static Methods

WMI Events

Remote Access and Namespaces

WMI and the Extended Type System

Using PowerShell in Active Directory

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Using PowerShell in and Active Directory Environment

Accessing Containment Objects

Accessing Users and Groups in Active Directory

Reading and Modifying Properties

Retrieving Properties

Modifying Properties

Invoking Methods

Group Memberships

Creating New Objects

Creating New Users