

# Automatiser l'administration Windows avec PowerShell - Fonctions avancées

Formation Informatique / Systèmes d'exploitation / Serveurs d'Applications



Learn how to automate and streamline day to day management and administration tasks and functions in your Windows Server Infrastructure.

This three-day course is a follow on course from the 10961B: Automating Administration with Windows PowerShell course. It is built on Windows Server 2012 R2 and Windows 8.1 and while it is specifically focussed on Windows PowerShell v4.0, it is also relevant in v2.0 and v3.0 Windows PowerShell environments.

Expand and build upon the knowledge already acquired in course 10961B and focus on building more scalable and usable Windows PowerShell scripts for use in your organization by building your own Windows PowerShell tools. Learn about areas such as the creation of advanced functions, script modules, advanced parameters attributes and controller scripts. Also learn how to make your scripts more robust by learning about handling script errors and the analysis and debugging Windows PowerShell scripts. The course will also cover the use of Windows PowerShell cmdlets with .NET Framework as well as teaching how to configure your Windows Servers using Desired State Configuration and providing an understanding of Windows PowerShell workflow.

The detailed hands on labs and in depth content and learning will help remove manual tasks that you may currently have to perform as an Administrator, allowing you to make your own Windows PowerShell tools for automated, repeated, accurate management and provisioning of your Windows Server infrastructure.



## A retenir

Durée : **3 jours** soit 21h.  
Réf. **M10962**

01 42 93 52 72

## Dates des sessions

**Paris**  
27/05/2019 (Promotion)  
28/10/2019  
**Lille**  
13/11/2019  
**Lyon**  
13/05/2019 (Promotion)  
12/06/2019  
12/11/2019

Cette formation est également proposée en formule **INTRA-ENTREPRISE.**



## Inclus dans cette formation



### Coaching Après-COURS

Pendant 30 jours, votre formateur sera disponible pour vous aider. CERTyou s'engage dans la réalisation de vos objectifs.

**100%**  
**SATISFACTION GARANTIE**

Votre garantie 100%

## OBJECTIFS

- Create Advanced Functions
- Use Cmdlets and Microsoft .NET Framework in Windows PowerShell
- Write Controller Scripts
- Handle Script Errors
- Use XML Data Files
- Manage Server Configurations by Using Desired State Configuration
- Analyze and Debugging Scripts
- Understand Windows PowerShell Workflow

## PUBLIC

This course is intended for IT Professionals already experienced in general Windows Server and Windows Client administration or already experienced in administering and supporting Application servers and services including applications such as Exchange, SharePoint, and SQL. System, Infrastructure and Application Administrators working in a Windows or Windows hybrid environment will all find this course relevant to their day to day jobs and future career and skills development.

The course is also intended for IT Professionals who want to build upon existing Windows PowerShell knowledge and skill to learn how to build their own tools for broader general use in their organization, using any Microsoft or independent software vendor (ISV) product that supports Windows PowerShell manageability.

## PRE-REQUIS

Knowledge and experience working with Windows PowerShell or knowledge equivalent to the content covered in course 10961B: Automating Administration with Windows PowerShell

Experienced in general Windows Server and Windows Client administration or already experience in administering and supporting Application servers and services including applications like Exchange, SharePoint, and SQL.

## PROGRAMME

### Module 1: Creating Advanced Functions

Converting a Command into an Advanced Function  
Creating a Script Module  
Defining Parameter Attributes and Input Validation  
Writing Functions that use Multiple Objects  
Writing Functions that Accept Pipeline Input  
Producing Complex Function Output  
Documenting Functions by using Content-Based Help  
Supporting -Whatif and -Confirm

### Module 2: Using Cmdlets and Microsoft .NET Framework in Windows PowerShell

Running Windows PowerShell Commands  
Using Microsoft .NET Framework in Windows PowerShell

### Module 3: Writing Controller Scripts

Understanding Controller Scripts  
Writing Controller Scripts that Show a User Interface

### Module 4: Handling Script Errors

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## SATISFACTION

Notre engagement 100% satisfaction vous garantit la plus grande qualité de formation.

Understanding Error Handling  
Handling Errors in a Script

### Module 5: Using XML Data Files

Reading, Manipulating and Writing Data in XML

### Module 6: Managing Server Configurations by Using Desired State Configuration

Understanding Desired State Configuration  
Creating and Deploying a DSC Configuration

### Module 7: Analyzing and Debugging Scripts

Debugging in Windows PowerShell  
Analyzing and Debugging an Existing Script

### Module 8: Understanding Windows PowerShell Workflow

Understanding Windows PowerShell Workflow

## Horaires, Planning et Déroulement de cette formation

### Horaires

- Formation de 9h00 (9h30 le premier jour) à 17h30.
- Deux pauses de 15 minutes le matin et l'après-midi.
- 1 heure de pause déjeuner

### DEROULEMENT

- Les horaires de fin de journée sont adaptés en fonction des horaires des trains ou des avions des différents participants.
- Une attestation de suivi de formation vous sera remise en fin de formation.
- Cette formation est organisée pour un maximum de 14 participants.

## PROCHAINES FORMATIONS

[Réussir la Certification Gestion de Projet PMP du PMI](#)

[Réussir la Certification PRINCE2 Foundation](#)

[Réussir les Certifications PRINCE2 Foundation et PRINCE2 Practitioner](#)

[Réussir la Certification ITIL Foundation](#)

[Réussir la Certification Agile certifié SCRUM Master](#)

[Réussir les Certifications TOGAF Certified et TOGAF Foundation](#)

Retrouvez cette formation sur notre site :

[Automatiser l'administration Windows avec PowerShell - Fonctions avancées](#)