

## Syllabus

### Introduction to PowerShell – the Basics

- What is PowerShell
- PowerShell Cmdlets
- PowerShell Snapins
- PowerShell Modules
- PowerShell Remoting
- Navigating in PowerShell

### The PowerShell Pipeline, Scripts and Syntax

- Pipelines
- Scripts
- Syntax, Output and Script Blocks

### Variables and Data Types, Variable Scopes, and Collections

- Variables and Data Types
- Variable Scopes
- Collections

### Security

- Script Execution
- Signing Scripts
- Requesting Credentials and Using Secure Strings
- Securing Remote Sessions

### Remote Management

- Configuring Remote Management
- Using PowerShell Remoting
- Using Jobs

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## Script Flow Control Statements

- Foreach and For
- While / Do While / Do Until
- If / Switch
- Break /Continue

## Functions, Filters and Modules

- Functions and Filters
- Scripting with Functions and Parameters
- Modules

## Error Handling

- Error Handling
- Script Debugging

## Administrative Uses

- Manipulating files and folders
- Modifying Registry Data
- Working with Events
- Working with Active Directory Objects
- Advanced Scripting