



TECHNICAL GUFTGU

Established Under Ministry of Micro, Small and Medium Enterprises, Govt. of India

Contact - +91 9870663188 or 8527556109

Website: www.technicalguftgu.in

- ✓ Certificate provided
- ✓ Recordings Provided
- ✓ In Hindi
- ✓ Expert Trainers

AUTOMATING ADMINISTRATION WITH WINDOWS POWERSHELL (M10961) SYLLABUS

Pre-requisite – No Pre-requisite. Specially Designed and Recommended for Freshers and Non-technical Background Students.

COURSE CONTENT:-

Module 1: Getting started with Windows Power Shell

1. Overview and background of Windows Power Shell
2. Understanding command syntax
3. Finding commands

Lab A : Configuring Windows Power Shell

- Configuring the Windows Power Shell console
- Configuring the Windows Power Shell ISE application

Lab B : Finding and running basic commands

- Finding and running basic commands
- Using the About files

Module 2: Cmdlets for administration

1. Active Directory administration cmdlets
2. Network configuration cmdlets
3. Other server administration cmdlets

Lab: Windows Administration

- Creating and managing Active Directory objects
- Configuring network settings on Windows Server
- Creating a web site

Module 3: Working with the Windows PowerShell pipeline

1. Understanding the pipeline
2. Selecting, sorting, and measuring objects
3. Filtering objects out of the pipeline

4. Enumerating objects in the pipeline
5. Sending pipeline data as output

Lab A : Using the pipeline

- Selecting, sorting, and displaying data

Lab B : Filtering objects

- Filtering objects

Lab C : Enumerating objects

- Enumerating objects

Lab D : Sending output to a file

- Exporting user information to a file

Module 4: Understanding how the pipeline works

1. Passing the pipeline data
2. Advanced considerations for pipeline data

Lab: Working with pipeline parameter binding

- Predicting pipeline behaviour

Module 5: Using PSProviders and PSDrives

1. Using PSProviders
2. Using PSDrives

Lab: Using PSProviders and PSDrives

- Creating files and folders on a remote computer
- Creating a registry key for your future scripts
- Create a new Active Directory group

Module 6: Querying system information by using WMI and CIM

1. Understanding WMI and CIM
2. Querying data by using WMI and CIM
3. Making changes with WMI/CIM

Lab: Working with WMI and CIM

- Querying information by using WMI
- Querying information by using CIM
- Invoking methods

Module 7: Working with variables, arrays, and hash tables

1. Using variables
2. Manipulating variables

3. Manipulating arrays and hash tables

Lab: Working with variables

- Working with variable types
- Using arrays
- Using hash tables

Module 8: Basic scripting

1. Introduction to scripting
2. Scripting constructs
3. Importing data from files

Lab: Basic scripting

- Setting a script
- Processing an array with a ForEach loop
- Processing items by using If statements
- Creating a random password
- Creating users based on a CSV file

Module 9: Advanced scripting

1. Accepting user input
2. Overview of script documentation
3. Troubleshooting and error handling
4. Functions and modules

Lab A : Accepting data from users

- Querying disk information from remote computers
- Updating the script to use alternate credentials
- Documenting a script

Lab B : Implementing functions and modules

- Creating a logging function
- Adding error handling to a script
- Converting a function to a module

Module 10: Administering Remote Computers

1. Using basic Windows PowerShell remoting
2. Using advanced Windows PowerShell remoting techniques
3. Using PSSessions

Lab A : Using basic remoting

- Enabling remoting on the local computer
- Performing one-to-one remoting
- Performing one-to-many remoting

Lab B : Using PSSessions

- Using implicit remoting
- Managing multiple computers

Module 11: Using background jobs and scheduled jobs

1. Using background jobs
2. Using scheduled jobs

Lab: Using background jobs and scheduled jobs

- Starting and managing jobs
- Creating a scheduled job

Module 12: Using advanced Windows PowerShell techniques

1. Creating profile scripts
2. Using advanced techniques

Lab: Practicing advanced techniques

- Creating a profile script
- Verifying the validity of an IP address
- Reporting disk information
- Configuring NTFS permissions
- Creating user accounts with passwords from a CSV file

KEY HIGHLIGHTS OF THIS TRAINING PROGRAM:

- ✓ Entire training programme is in Hindi Language for Better understanding.
- ✓ Special focus on Non technical and Fresher candidates.
- ✓ Provides Recording of each live session which you can access from anywhere anytime for One year.
- ✓ Course Completion Certificate Provided at the end of the course.
- ✓ Interview Cracking tips during live sessions.
- ✓ Doubt clearing session will be provided.
