

5 Days

55039: Windows PowerShell Scripting and Toolmaking

Windows PowerShell Scripting and Toolmaking training is a five-day course beneficial to IT Professionals who have working knowledge of Windows PowerShell 3.0 techniques and technologies, and want to build reusable tools by using Windows PowerShell 3.0. This Windows PowerShell training lays emphasis on the Windows PowerShell scripting language, and on the concepts and techniques needed to produce reusable, professional tools.

Completion of this certification course will equip candidates in:

- Designing tools, including input requirements, output requirements, and functional requirements.
- Writing tools, including scripting, parameterizing commands, and providing verbose output.
- Debugging tools and provide error handling within tools.
- Combining tools into script and manifest modules.
- Creating custom formatting views.
- Creating tools that are consistent in naming and operation with native Windows PowerShell tools

Course Details

Course Outline

Module 1: Prepare for Scripting

- Secure the Scripting Environment
- Understand Scripting Constructs and Scope
- Understand Variables and Operators

Module 2: Parameterize a Command

- Design Parameters
- Implement Parameters

Module 3: Create a Script Module

- Design Script Modules
- Implement Script Modules

Module 4: Handling Errors

- Design Error Handling
- Implement Error Handling

Module 5: Write Commands that Use Pipeline Input and Output

- Understand Pipeline Parameter Binding
- Implement Pipeline Parameter Input

Module 6: Create Hierarchical Command Output

- Use Object Hierarchies
- Design Complex Command Output
- Implement Complex Command Output

Module 7: Debugging Scripts

- Design Scripts for Debugging
- Implement Script Debugging

Module 8: Customize Default Formatting

- Design Formatting
- Implement Custom Formatting

Module 9: Add Advanced Parameter Attributes and Command Documentation

- Implement Help Documentation
- Implement Advanced Parameter Attributes

Module 10: Create Controller Scripts

- Design Script Execution
- Implement a Controller Script

Module 11: Create HTML-Based Reports

- Create Basic HTML Reports
- Create Enhanced HTML Reports

Module 12: Create Basic Workflows

- Understand Workflows
- Implement Workflows

Module 13: Work with XML Data

- Understand XML
- Implement XML Manipulation

Module 14: Use Advanced Scripting Techniques

- Using External Functionality
- Add Graphical User Interface Elements

Module 15: Create Proxy Functions

- Design Proxy Functions
- Implement Proxy Functions

Module 16: Build Tools in Windows PowerShell

- Design the Tool
- Implement the Tool
- Test the Tool

Who Should Attend

This course is beneficial for individuals carrying little or even no programming experience, but possess a working knowledge of Windows PowerShell and who are able to use Windows PowerShell to run complex, interactive commands.

Pre Requisite

Before attending this course, candidates must possess:

- Certification of Course 10961 which is an important pre-requisite to this course
- Experience in administering Windows server and client computers
- Experience in running interactive Windows PowerShell commands from the command prompt

464, Udyog Vihar Phase
V, Gurgaon (Delhi
NCR)-122016, India

+91 8882 233 777

training@mercury.co.in

www.mercurysolutions.co

Date - May 20, 2025