**­­­­­­Course Outline**

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| **Number of**  **Day 3** | 1. **Windows PowerShell**    * What is Windows Powershell    * Windows Powershell Architecture    * Overview and Background    * Finding and Running Commands    * Exploring Inbuilt **Security** 2. **Powershell Help System**    * Understanding PowerShell help System    * Types of Help Available    * How to read PS Help    * Understanding the commands    * Identifying the parameters 3. **Working with the Pipeline**    * Concept of Pipeline    * Advantages of Pipeline    * Exporting, Importing, and Converting Data    * Filtering Objects Out of the Pipeline    * Enumerating Objects in the Pipeline 4. **Using PSProviders and PSDrives**    * What are PSProviders and PSDrives    * Purpose of PSProviders and PSDrives    * Using PSDrives to work with Registry, Files system    * Modifying/Querying the Registry and File system 5. **Formatting Output**    * Using Basic Formatting    * Exploring Inbuilt formatting    * Using Advanced Formatting    * Redirecting Formatted Output to file, Screen, Printer    * Custom Formatting 6. **Using WMI and CIM**    * Introduction to WMI and WMI Objects    * Need of WMI in Powershell    * Querying Data with WMI/CIM    * Making Changes with WMI/CIM 7. **String and Text Parsing methods and techniques**      1. **Powershell Modules and Manifests**    * Adding additional functionality in shell    * Exploring new CMDLETS    * Dynamic/Manual Module loading    * Creating your own module 2. **Preparing for Scripting**    * Types of Variable    * Using Variables    * Scope of Variables    * Scripting Security    * Working with Alternate Credentials 3. **Moving from a Command to a Script**     * Moving from Command to Script    * Moving from Script to Function to Module    * Using Basic Scripting Constructs    * Further Exploration in Scripting 4. **Administering Remote Computers**    * What is PowerShell Remoting?    * Prerequisites for Remoting    * Using Basic Remoting 1:1 and 1: Many    * Creating interactive Remote session    * Creating Persistent Session 5. **Loops Supported in PowerShell**    * If..Else and nested If..Else    * Foreach    * For    * Switch    * While Loop 6. **Using Advanced PowerShell Techniques and Profiles**    * Understanding Powershell Function    * Purpose of Functions    * Creating Powershell Functions    * Adding Help information in functions    * Using Parameters in script    * Creating Profile Scripts. |