PowerShell Beginner’s Course

1. Intro to PowerShell
   1. PowerShell is what?
   2. Why Switch from CMD
   3. Differences between CMD, BASH, and PowerShell
   4. What is this “All things are Objects” thing
2. Intro to the PowerShell Console
   1. Tour of the Console and how to configure window settings
   2. Intro to the PowerShell Prompt and its configuration
3. Intro to PowerShell Cmdlets
   1. What a CMDLET is made of
      1. Noun
      2. Verb
      3. Parameters
   2. Why did Microsoft make these things so long?
   3. What is and how to find aliases
   4. What is the pipeline and how to use it
4. Important CMDLETS that will always help
   1. Get-Help
   2. Update-Help
   3. Get-Command
   4. Get-Alias
   5. Get-Member
   6. Set-Location
   7. Get-ChildItem
   8. *Formatting Output*
      1. Format-List with Properties
      2. Format-Wide
      3. Format-Table
      4. Out-GridView
   9. Sort-Object
   10. Select-Object
   11. Where-Object
5. PowerShell Providers and PSDrives
   1. What they are and how they help you
   2. Get-PSProvider
   3. Get-PSDrive
6. Scripting and the Integrated Scripting Environment
   1. Intro to the ISE and its configuration
   2. Tour of the ISE
   3. Understanding when to use the ISE or Console
   4. Intro to Scripting
   5. Execution policies for Scripts
      1. Get-Execution CMDLET
      2. Set-Execution CMDLET
   6. Walkthrough of Some Simple and Advanced Scripts
7. Variables What they are and how to use them
   1. Uses of Variables in Scripts and in Console
   2. ENV: PSDrive
   3. VARIABLE: PSDrive
   4. Useful Variables
      1. $PSVERSIONTABLE
      2. $ENV:PSModulePath
      3. $PSHOME
      4. $ENV:USERPROFILE
   5. Using Variables to perform tasks
      1. DEMO: Math Problem