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16 Corporate Woods Blvd.
Albany, NY 12211

Computer Visions Course Outline

Get What You Want

We offer highly customizable group training courses: desktop applications, web development, networking & operating systems, technical certification, professional development & skills, help desk.

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All Computer Visions courses are available for presentation on-site or off-site for your convenience. We can roll out any combination of courses at one or more locations anywhere in the United States, according to your requirements and time table. Just let us know and we'll work with you!

Corporate Training Solutions

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6434: AUTOMATING WINDOWS SERVER 2008 ADMINISTRATION WITH WINDOWS POWERSHELL

Description:

This three-day instructor-led course provides students with the knowledge and skills to utilize Windows PowerShell for administering and automating administration of Windows Server 2008. The course focuses on cmdlets, script structure and flow control, language syntax, and implementation details of scripting administrative tasks using COM, WMI, and .NET foundations.

Course Outline:

Module 1: Introduction to Microsoft Windows PowerShell

- Introduction to Windows PowerShell
- Installing Windows PowerShell in Windows Server 2008

Lab : Implementing Windows PowerShell

- Installing Windows PowerShell
- Customizing Windows PowerShell

Module 2: Overview of Microsoft Windows PowerShell

- Overview of Objects
- Working with Cmdlets
- Tab Expansion, Aliases, and History
- Using Variables and Types

Lab : Working with Windows PowerShell Cmdlets, Aliases, Objects, and Variables

- Learning Cmdlets and Defining Aliases
- Holding the Output of a Cmdlet

Module 3: Building Pipelines for Assembly-Line Style Processing

- Using Pipelines
- Using Arrays
- Filtering and Iterating Through the Pipeline
- Reordering Objects in a Pipeline

Lab : Implementing Pipelines in Windows PowerShell

- Evaluating Process Properties Using the Get-Member Cmdlet

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Classroom and Computer Rentals

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- Calculating Process Memory Usage
- Using Associative Array Variables
- Sorting and Selecting Elements from a Resultant Set of Data

Module 4: Managing Processes and Formatting Cmdlet Output

- Managing Windows Processes with Microsoft Windows PowerShell
- Formatting Cmdlet Output

Lab : Output Formatting and Process Control with Windows PowerShell

- Implementing Basic Formatting Control
- Formatting with the -f Operator
- Implementing Advanced Formatting

Module 5: Introduction to Scripting with Microsoft Windows PowerShell

- Writing Windows PowerShell Scripts
- Script Parameters
- Security in Windows PowerShell
- Customizing Windows PowerShell with Profiles

Lab : Implementing Scripts in Windows PowerShell

- Writing and Running a Script
- Customizing Profiles

Module 6: Implementing Flow Control and Functions

- Controlling the Flow of Execution Within Scripts
- Iteration Flow Control
- Developing and Using Functions

Lab : Implementing Functions and Flow Control in Windows PowerShell

- Adding Flow Control in a Script
- Creating Functions

Module 7: Working with Files, the Registry, and Certificate Stores

- Using Data Stores
- Using Providers
- Filtering and Selecting with Regular Expressions
- Implementing Event Log Management
- Persisting Objects in Files

Lab : Working with Files, the Registry, and Certificate Stores

- Searching for Certain Files
- Modifying Registry Entries
- Generating Reports
- Generating Reports on the Security Log
- Comparing Files

Module 8: Managing the Windows Operating System Using Microsoft Windows PowerShell and WMI

- Introduction to WMI and WMI Objects

- Managing Disks and Disk Volumes Using Windows PowerShell with WMI
- Managing Shadow Copies Using Windows PowerShell with WMI
- Managing Shared Folders with Windows PowerShell
- Managing Terminal Services with WMI
- Managing IIS 7.0 with WMI

Lab : Managing the Windows Operating System with Windows PowerShell and WMI

- Using WMI Classes in Windows PowerShell
- Using WMI Type Accelerators
- Managing Disk Volumes in Windows PowerShell
- Defragmenting Disk Volumes Using Windows PowerShell
- Managing IIS 7.0 Properties Using WMI

Module 9: Administering Active Directory with Microsoft Windows PowerShell

- Administering Domains and Forests Using .NET Objects
- Managing User Accounts and Groups Using ADSI
- Managing Relationships Between Users and Groups
- Web Administration Using IIS 7.0

Lab : Administering Active Directory with Windows PowerShell

- Managing Active Directory Domain and Forest Properties
- Maintaining Active Directory with ADSI
- Maintaining Relationships in Active Directory with ADSI
- Managing IIS 7.0 with the .NET Web.Administration.ServerManager Class

Module 10: Administering Group Policy in Microsoft Windows PowerShell Using COM

- Managing GPOs Using the GPMC COM Interface
- Managing Group Policy Objects
- Reporting Group Policy

Lab : Administering Group Policy in Microsoft Windows PowerShell

- Retrieving a GPO by Using a COM Object
- Copying Group Policy Settings
- Backing Up and Restoring a GPO
- Generating Group Policy Reports